

OPY # 3128

Canyon Fuel Company, LLC **Dugout Canyon Mine** P.O. Box 1029 Wellington, Utah 84542

February 16, 2011

Coal Regulatory Program Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801

2010 Midterm Permit Review Deficiencies, Task ID #3728

Dugout Canyon Mine, Canyon Fuel Company, LLC, C/007/039, Carbon County, Utah

Dear Sirs:

Attached please find four clean copies of revisions to the Dugout Permit associated with the Revisions have been made to the M&RP, Degassification Amendment, Midterm Review. Refuse Pile Amendment and General Chapter 1, all are provided in separate folders within this submittal. The separate folders should facilitate an easier incorporation into the permit binders.

A fifth copy of this submittal has been delivered to the Price field office.

Thank you for your assistance and if you have any questions please call me at (435) 636-2869.

Sincerely yours,

Vicky S. Miller

CC: Dave Spillman

File in:

□ Confidential

□ Shelf

Expandable

Walfor additional

RECEIVED FEB 2 2 2011

DIV. OF OIL, GAS & MINING

### APPLICATION FOR COAL PERMIT PROCESSING



Permit Change ☑ New Permit ☐ Renewal ☐ Exploration ☐	Bond Release Transfer Transfer
Permittee: Canyon Fuel Company, LLC	
Mine: Dugout Canyon Mine	Permit Number: C/007/039
Title: Clean Copies of 2010 Midterm Permit Review Deficiencie	
<b>Description</b> , Include reason for application and timing required to implement:	
<ul> <li>Instructions: If you answer yes to any of the first eight (gray) questions,</li> <li>☐ Yes ☒ No</li> <li>☐ Change in the size of the Permit Area? Acres:</li> </ul>	
Yes No 2. Is the application submitted as a result of a Division (	
Yes No 3. Does the application include operations outside a pre	
Yes No 4. Does the application include operations in hydrologic	
Yes No 5. Does the application result from cancellation, reduction	
Yes No 6. Does the application require or include public notice	
Yes No N	
Yes No  8. Is proposed activity within 100 feet of a public road of Yes No  9. Is the application submitted as a result of a Violation	
Yes No 10. Is the application submitted as a result of other laws <i>Explain</i> :	or regulations or policies?
Yes No 11. Does the application affect the surface landowner or	
	design or mine sequence and timing? (Modification of R2P2)
Yes No 13. Does the application require or include collection and	
Yes No 14. Could the application have any effect on wildlife or v Yes No 15. Does the application require or include soil removal,	
Yes No 16. Does the application require or include son removal,	
Yes No 17. Does the application require or include construction,	
Yes No 18. Does the application require or include water monitor	
Yes No 19. Does the application require or include certified design	
Yes No 20. Does the application require or include subsidence co	
Yes No 21. Have reclamation costs for bonding been provided?	······································
Yes No 22. Does the application involve a perennial stream, a str	eam buffer zone or discharges to a stream?
Yes No 23. Does the application affect permits issued by other ag	
Please attach four (4) review copies of the application. If the mine is	n or adjacent to Fenert Service land places submit five
Please attach four (4) review copies of the application. If the mine is o (5) copies, thank you. (These numbers include a copy for the Price Field Office)	ii of aujacent to rotest service fand please submit five
I hereby certify that I am a responsible official of the applicant and that the information conta and belief in all respects with the laws of Utah in reference to commitments, undertakings, and	
David Spillman	Chill & Muse
Print Name Sig	n Name, Position, Date
Urchy Sue Milly	NOTARY PUBLIC-STATE OF UTAW 1778 KENIL WORTH RD.
Notary Public My commission Expires: 1-02 2012}	HELPER, UTAH 84526
Attest: State of UTAH } ss:	COMM. EXP. 91-42-3912
County ofCARBON	
For Office Use Only:	Assigned Tracking Received by Oil, Gas & Mining
•	Number: RECEIVED
	KEUEIVLD
	FEB 2 2 2011
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# APPLICATION FOR COAL PERMIT PROCESSING Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permitte	ee: Canyon l			Ē.
Mine:	Dugout Canyo			Number: <u>C/007/039</u>
Title:	Clean Copies	of 2010 Midte	erm Permit Review Deficiencies, Task ID # 3728	
application of conten	on. Individually	list all maps ar plan, or other	to the Mining and Reclamation Plan, which is required as and drawings that are added, replaced, or removed from the information as needed to specifically locate, identify and reason and drawing number as part of the description.	plan. Include changes to the table
			DESCRIPTION OF MAP, TEXT, OR MATERIA	L TO BE CHANGED
Add	Replace	Remove	General Chapter One	
Add		Remove	Appendix 1-1	
Add	Replace	Remove	M&RP	
Add	Replace	Remove	Chapter 2, Pages 2-33 and 2-34 - Table 2-2 and page 2-4	1
Add		Remove	Chapter 5, Appendix 5-6	
Add Add	Replace	☐ Remove	Chapter 6, Page 6-18	
Add	Replace	Remove	Refuse Pile Amendment	
Add	Replace	Remove	Chapter 2, Pages 2-12 thru 2-18	
Add	Replace	Remove	Plate RA 2-2	
Add	Replace	Remove	Degassification Amendment	
Add	Replace	Remove	Chapter 1, Table 1-2 pages 1-7 and 1-8	
Add	Replace	Remove	Chapter 2, Table 2-1	
⊠ Add	Replace	Remove	Attachment 2-1 - add to the back of the existing informat	ion
⊠ Add	Replace	Remove	Attachment 2-2 - add to the back of the existing informat	ion
Add	Replace	Remove		
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	r specific or sp		on required for insertion of this proposal into the	Received by Oil, Gas & Mining
2/16/11 -	Changes to four	· different sets of	of binders have been provided. Please be aware that the	RECEIVED
pages nee	d to be placed in	n the correct bi	nders.	FEB 2 2 2011
				DIV. OF OIL, GAS & MINING

# GENERAL CHAPTER 1 APPENDIX 1-1

ARCH COAL INC 2010 OWNERSHIP AND CONTROL UPDATES

October 2010

#### ARCH COAL INC. (144492) OWNERSHIP AND CONTROL INFORMATION

Name	Position	Begin Date	
LEER, STEVEN F LEER, STEVEN F LEER, STEVEN F LANG, PAUL DREXLER, JOHN T BESTEN JR, CLARENCE HE PEUGH, DAVID B LOCKHART, THOMAS A BOYD, JAMES ROBERT JONES, ROBERT G JONES, ROBERT G STEELE, CHARLES DAVID EAVES, JOHN W EAVES, JOHN W EAVES, JOHN W BUMBICO, ANTHONY S HUNT, DOUGLAS H FLORCZAK, JAMES E PERRY, MICHAEL A SANDS, THEODORE D LORSON, JOHN W POTTER, ROBERT G SLONE, DECK S FELDMAN, SHEILA B GODLEY, PATRICIA FRY WARNECKE, DAVID N TAYLOR, WESLEY M JENNINGS, BRIAN J HARTLEY, DAVID E WARNER, CASEY PLOETZ, JON S JONES, J. THOMAS WOLD, PETER I.	CEO DIR CB SVP CFO, SVP ENRY SVP DIR DIR SVP GC, SEC VP (TAX) COO DIR PRS VP DIR TRS DIR VP, CAO DIR VP DIR VP DIR OIR VP DIR OIR VP DIR OIR OIR OIR OIR OIR OIR OIR OIR OIR O	7/1/97 7/1/97 4/28/06 12/7/06 5/1/08 12/01/02 7/1/97 2/21/03 7/1/97 8/1/2008 10/16/00 4/24/03 12/11/02 2/23/06 4/28/06 4/27/06 7/1/97 8/17/98 9/28/98 2/25/99 4/30/08 4/26/01 4/26/01 2/3/03 7/22/04 8/8/05 7/28/05 7/28/05 7/27/06 8/1/09 4/23/09 2/18/10 7/21/10 7/21/10	
Name CHANGES 2006 - 2010 HORGAN, JANET L HORGAN, JANET L BOYD, JAMES ROBERT EAVES, JOHN W LEER, STEVEN F MESSEY, ROBERT J KELLEY, ALLEN ABBENE, MICHAEL T BILLHARTZ, GREGORY A LORSON, JOHN W BESTEN JR, CLARENCE HE BURKE, FRANK M	Position  ASS AGC CB EVP PRS CFO, SVP COF VP, CIO ASC COP ENRY DIR	Begin Date  10/16/00 10/16/00 7/1/97 12/11/02 7/1/97 12/1/00 3/15/05 7/1/05 12/8/05 4/9/99 7/1/97 9/7/00	End Date  10/14/05 12/14/05 4/28/06 4/28/06 4/28/06 4/30/08 11/17/08 7/31/09 10/6/09 4/30/08 12/01/09 Deceased 7/24/10

#### **LEGEND**

AGC - ASSISTANT GENERAL COUNSEL AST - ASSISTANT TREASURER CB - CHAIRMAN OF THE BOARD CFO - CHIEF FINANCIAL OFFICER COO - CHIEF OPERATING OFFICER CIO - CHIEF INFORMATION OFFICER

EVP - EXECUTIVE VICE PRESIDENT GM - GENERAL MANAGER

GC - GENERAL COUNSEL

SEC - SECRETARY VP - VICE PRESIDENT

SVP - SENIOR VICE PRESIDENT

**ASC - ASSISTANT SECRETARY** 

CAO - CHIEF ACCOUNTING OFFICER

CEO - CHIEF EXECUTIVE OFFICER

**COF - INTERNAL AUDITOR** 

**COP - CONTROLLER** 

**DIR - DIRECTOR** 

**FIN - FINANCE** 

PRS - PRESIDENT

TRS - TREASURER

October 8, 2010

#### ASSISTANT SECRETARY'S CERTIFICATE

#### ARCH COAL, INC.

I, Jon S. Ploetz, Assistant Secretary of ARCH COAL, INC., a Delaware corporation (the "Company"), hereby certify to the following:

- 1. On July 21, 2010, J. Thomas Jones was elected a Director of the Company; and
- 2. On July 21, 2010, Peter I. Wold was elected a Director of the Company.

WITNESS my hand and seal of this Company this 21st day of July, 2010.

Jon S. Ploetz

State of Missouri )
) ss
County of St. Louis )

Sworn and Subscribed to before me this 21st day of July, 2010.

My Commission Expires: May 21 2611

Jolene Mermis

JOLENE JOUETT MERMIS Notary Public - Notary Seal State of Missouri Commissioned for St Louis County My Commission Expires: May 21, 2011 Commission Expires: May 21, 2011 CHAPTER 2 SOILS At the Pace Canyon fan portal site, the topsoil and underlying unconsolidated materials will be removed and stockpiled together. The entire mixture will be treated as topsoil in compliance with R614-201-234.300. The recovery of topsoil/growth medium will be maximized at the site.

TABLE 2-2
TOPSOIL AND SUBSTITUTE TOPSOIL VOLUMES

AREA	MATERIAL TYPE	Volume Estima	ated at Salvage
NORTHWEST FACILITIES AREA (AREA 2)	TOPSOIL/OVERBURDEN	1,65	33 CY
COAL STORAGE AREA (AREA 3)	TOPSOIL/SUBSOIL	4,86	9 CY
SEDIMENT POND, SLOPE AREA, AREAS BETWEEN ROAD AND CREEK (AREAS 4, 6, 7)	TOPSOIL/SUBSOIL	20,1	18 CY
WATER TANK AREA (AREA 8)	TOPSOIL/SUBSOIL	247	'CY
SLOPE EAST OF COAL STORAGE PILE (AREA 9)	TOPSOIL/SUBSOIL	333	3 CY
GILSON WATER WELL*	TOPSOIL/SUBSOIL	134	CY
SMALL SUBSTATION	TOPSOIL/SUBSOIL	140	CY
	TOTAL	27,4	50 CY
Topsoil/Subsoil Stockpile Survey			Cubic Yards
North Pile (1998), Includes Area	5 Soils		11,300
South Pile (1998)			13,939
Gilson Well Pile (2006)			134
Small Substation Pile (2006)			140
Subsoil Pile (2006)			734
TOTAL			26,247
North Pile - Pace Fan			1,941

South Pile - Pace Fan	1,218
TOTAL	3,159

<sup>\*</sup> Refer to Appendix 2-8 for volume calculations and location of soil.

#### 232.200 Poor Topsoil

Topsoil that is of an insufficient quantity, or of poor quality (for sustaining vegetation) will be removed as a separate layer and segregated. Such operations will be done with approval of the Division, and in compliance with R614-301-233.100 (Section 233.100).

#### 232.300 Thin Topsoil

Topsoil to be removed that is less than 6 inches thick will be removed with the immediately underlying unconsolidated materials. This material mixture will be treated as topsoil.

#### 232.400 Minor Disturbances Not Requiring Topsoil Removal

**Small Structures.** Topsoil will not be removed prior to construction that would result in only minor disturbances. Such construction activity includes work on small structures such as power poles, signs, fence lines, and other small structures.

**Vegetation.** The operator will not remove topsoil for minor disturbances where such activity will not destroy vegetation or cause erosion.

#### 232.500 Subsoil Segregation

The B and C soil horizons removed during construction of the site will be stockpiled as described in Section 231.400.

#### 232.600 Timing

Soil removal will take place after all vegetation that could interfere with soil salvage has been removed. Surface disturbance activities will take place after the topsoil has been removed.

Canyon Fuel Company, LLC SCM/Dugout Canyon Mine

During reclamation, the topsoil will be allowed to settle and attain equilibrium with its natural environment. This procedure will be followed for all areas in which facilities such as ancillary road beds, mine pads, and building sites are to be abandoned.

Based on the results of the sampling and analysis of soil test pits TP-1, 4, 5, 6, 7, 8, and 9 and the description of pits 14 and 14A, approximately 27,450 CY of topsoil/growth media will be available to be distributed on reclaimed surfaces within the disturbed area boundary (Appendix 2-6). An estimated 15.2 acres within the disturbed area will receive topsoil. Based on the estimated quantity of available topsoil and the area to be covered, approximately 13.3 inches of topsoil will be placed in the reclaimed areas.

The Pace Canyon topsoil (approximately 18") will be distributed to the disturbed areas illustrated on Plate PC5-5. Topsoil will not be distributed on the realigned road segment or topsoil stockpiles. The area above the portal and the channel diversion area will have topsoil stripped and stockpiled adjacent to these areas temporarily. This topsoil will be surrounded with a silt fence for protection until the soil can be replaced, mulched, gouged and reseeded. The replacement of the temporarily stored topsoil will follow the completion of the construction of the reclamation diversion (PCRD-1). Plate 7-5A in Appendix 7-12, shows the location of soil/vegetation treatments at the fan facility.

**Compaction.** To prevent compaction of topsoil, soil moving equipment will refrain from unnecessary operation over spread topsoil. Front-end-loaders and other wheel mounted equipment may be used to transport and dump topsoil. However, to minimize compaction, only track-mounted equipment (e.g. bulldozers, trackhoes) will be used to spread the topsoil. The topsoil will be loosened prior to seeding as described in Section 341.200 of this M&RP.

**Erosion.** Care will be exercised to ensure the stability of topsoil on graded slopes to guard against erosion during and after topsoil application. Erosion control measures may include but not be limited to surface roughing and deep gouging.

Canyon Fuel Company, LLC SCM/Dugout Canyon Mine

## **APPENDIX 5-6**

Reclamation Bond Estimate

TABLE 1-2
Disturbed Acres by Well Site

Well Site	Permitted Disturbed Acres	Surveyed Disturbed Acres
G-1	0.6	Not Constructed
G-2	1.21	0.45
G-3	0.97	0.51
G-4	0.85	0.39
G-5	0.75	0.42
G-6	0.32	0.59
G-7	1.25	0.49
G-8	0.9	Not Constructed
G-9	2.2	0.31
G-10	1.7	0.29
G-11	1.6	0.32
G-12	2	0.32
G-13	2.75	0.44
G-14	2	0.40
G-15	2.5	0.77
G-16	2	0.64
G-17	1.25	Not surveyed
G-18	1.4	0.70
G-19	2.3	0.52
G-22 and Access Road	3.5	1.79
G-25	1.8	0.60
G-26	1.8	0.60
G-29	2	Not Constructed
G-30	2	0.93
G-31	1.75	0.71

No. 4940688 WARE

# Bonding Calculations

Πi	rect	Costs	;

Subtotal Demolition and Removal Subtotal Earthwork - Backfilling and Grading Subtotal Revegetation Direct Costs	\$1,162,693.00 \$812,380.00 \$335,065.00 \$2,310,138.00	
Indirect Costs Mob/Demob Contingency Engineering Redesign Main Office Expense Project Mainagement Fee Subtotal Indirect Costs	\$231,014.00 \$115,507.00 \$57,753.00 \$157,089.00 \$57,753.00 \$619,116.00	10.0% 5.0% 2.5% 6.8% 2.5% 26.8%
Total Cost	\$2,929,254.00	
Escalation factor Number of years Escalation	\$73,967.00	0.005 5
Reclamation Cost Escalated	\$3,003,221.00	
Reclamation Cost (rounded to nearest \$1,000) 2015 Dollars	\$3,003,000.00	•
Bond Amount in 2010 dollars	\$3,550,000.00	
Difference Between Cost Estimate and Bond Percent Difference	\$547,000.00 18.22%	

Description	Cost
The Park No. 4 No. 4	2310
Mine Belt BC-1 No 1	4244
Transfer Building No 2 Feed Belt BC 2 No3	164
Stack Tubes 2 No4	49
Head House 1 No 5	796
Transfer Belt BC 2 No 6	104
Head House 2 No 7	19-
Reclaim Tunnel No 8	444
Reclaim Belt BC 4 No 9	144
Escape Tunnel 60 inch No 10	11 375
Crusher Building No 11	119
Truck Loadout Belt BC 5 No 12	310
Truck Loudout and Scale No 13	1516
Bathhouse/Shop/Warehouse No 14	19
Substation No 15	19
Power Lines and Poles No 16	g
Retaining Wall No 17	235
Gabion Wall No 18	35
Pump House No 19	1677
Paved Road No 20	41
Stream Culvert 72 inch No 21	38
Water Tanks No 22	13
Rock Dust Bin No 23 Fuel Tank and Fuel Station No 24	
Holding Tank No 25	
Ventilation Fan No 26	20
Magnet No 27	
Water System No 28	784
Sewage System No 29	26:
Storage Containers (8) No 30	2
Gilson Well No 31	2
Switch House No 32	L
Portais No 33	26
Storage Bolts & Bits	27
Storage Building No 35	12
Sampling System No 36	1-1-12
Stoker Storage Bin No 37	<del>                                     </del>
Substation No 2 No 38	<del>                                     </del>
Gabion Baskets No 39	<del>                                     </del>
Pace Fan Culvert No 40	22
Pace Fan Generator no 41	5
Pace Fan Portal no 42	
Refuse Site No 43	11
Degas Well G2 Degas Well G3	
Degas Well G3  Degas Well G4	
Degas Well G5	10
Degas Well G6	
Degas Well G7	1
Degas Well G9	10
Degas Well G10	1
Degas Well G11	
Degas Well G12	1
Degas Well G13	1
Degas Well G14	1
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Degas Well G31	- 5
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Degas Well G25	1
Degas Well G26	1
Degas Well G-29	
Degas Well G-30	116

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						XXX	Concrete Origina disposari - 2011	Truck dump 16 ton (12 CY) - 2011	Front End Loader 3 CY - 2011	Concrete demolition									Truck Dirver, Heavy - 2011	Truck dump 16 ton (12 CY) 400 HP Rental 101 3# 33 3300									Lg Steef Bldg/ include 20 mi haul - 2011			Materials
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Escape Tunnel 60 inch No 10

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Rock and soil from gabon walls will be used in reclamation to rebuild the slope, soil material will not be hauled from site. 6X3X1 gabon basket mesh calculation is 0.67 CY per panel to be hauled as waste - 770 panels X 0.67 CY = 513 CY waste

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Loading Cost	Concrete's Vol. Demolished	Demolition Cost	Concrete Demolition		Subtotal	Disposal Costs	Transportation Cost	Loading Cost	Concrete's Vol. Demolished	Demolition Cost	Concrete Demolition		Subtotal fits in the second se	Disposal Costs	Transportation Cost	Loading Cost	Concrete's Vol. Demotished	Demolition Cost	Concrete Demolition	Subtotal	Disposal Costs	Transport Costs	Loading Costs	Equipment 's Vol. Demolished	Dismantling Cost	Equipment 's Disposal Cost		Subtotal Cost otes	Disposal Cost Steel	Transportation Cost Steel Truck Drive	Transportation Cost Steel Truck	Hardane	Truck's Capacity	Steel's Weight	Disposal Cost Non Steel	Transportation Cost Non Steel Drive	Transportation Cost Non Steel Truck	Harlans Capacity	Number's (Page 1)	Oraciare a con Comprise	Signature's Vol. Demolished	Statetura's Demolition Cost	Pump House No 19		Description	
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Tanks belong to Pierce Oil not to Dugout Canyon Mine, therefore they will be hauled from site by owner

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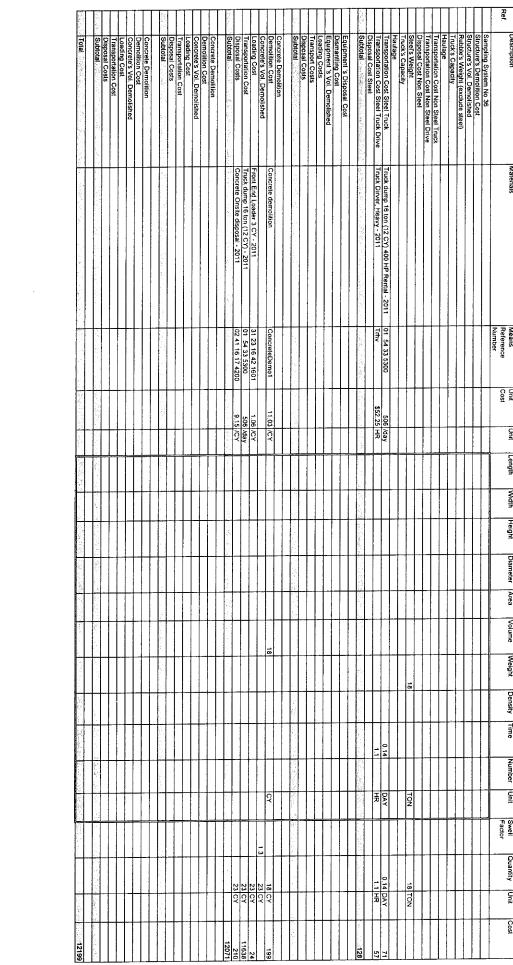
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こことでは、整理が行った。 不保証的	Concrete Onsite disposal - 2011	Truck dump 16 ton (12 CY) - 2011	Front End Loader 3 CY - 2011		Concrete demolition				Condition Clisica disposal - 2011	Concrete Oncile disposal 2011	Truck dumn 16 ton /12 CV) - 2011	Front End Loader 3 CV - 2011		Concrete demolition				Concrete Onsite disposal - 2011	Truck dump 16 ton (12 CY) - 2011	Front End Loader 3 CY - 2011		Concrete demolition							Salvage - Crane/Haul - 2011	Salvage - Crane/Haul - 2011	Salvage - Loader/Haul - 3 CY/4 Tons - 2011		金 经银币 医多克氏 人名英格兰 医多克氏病 医多克氏原皮氏病 医多克氏原皮炎 医多克氏炎 医多克氏炎 医多克氏炎 医多克氏病 医多克氏病 医多克氏炎 医多克氏炎 医多克氏炎 医多克氏炎 医多克氏炎 医多克氏炎 医多克氏炎 医多克氏病 医多克氏炎 医多克氏病 医原皮炎 医皮炎 医皮炎 医皮炎 医皮皮炎 医皮炎 医皮炎 医皮炎 医皮炎 医皮炎		Truck Dirver, Heavy - 2011	Truck dump 16 ton (12 CY) 400 HP Rental - 2011 01 54 33 5300	i.	Waste Logistics/Haul 30 CY - 2011							ES OCCUPANTAL INVESTIGATION AND THE PROPERTY OF THE PROPERTY O	to Steet Bido/ include 20 mi hauf - 2011	
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Nielson Contraction cost include 30 Ton crane wioperator \$123.50 hr, 60 Ton crane wioperator \$152 hr, fluck widniver and trailer \$128.25 hr and pickup & rigger \$42.75 hr, actual invoice 10/19/10

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Malerials  Means Reference Cost Number  Fencing, barbed wire, 5 strand - 2011  02 41 13 60 1650  3.01 /LF	Means Reference Number  02 41 13 60 1650  3.01	Means Reference Cost Number  3.01 /LF  3.250  Meight Width Height  Height	Means Relievence Cost Number  3.01 /LF  3250  Diameter Area  Area  3250	Means Reference Cost Number  Diameter Area Volume Weight  Number  3.01 /LF  3.250  Diameter Area Volume Weight	Means Reference Cost Number  Unit Length Width Height Diameter Area Volume Weight Density Time  22 41 13 60 1650 3.01 /LF 3250 Unit Density Time	Means Reterence Cost Number  Opinit Reterence Cost Number  Opinit Reterence Cost Number  Opinit Reterence Cost Number  Opinit Reterence Cost Number  Opinit Reterence Cost Number  Opinit Reterence Cost Number  Opinit Reterence Cost Number  Opinit Reterence Cost Number  Opinit Reterence Cost Number  FT  Opinit Reterence Cost Number  FT  Opinit Reterence Cost Number  Number  Number  Number  FT  Opinit Reterence Cost Number  FT  Opinit Reterence Cost Number  Number  Number  Number  FT  Opinit Reterence Cost Number  Number  Number  Number  Number  Number  FT  Opinit Reterence Cost Number  Number	Means Reterence Cost Number  3.01 /LF 3.250  3.01 /LF 3.250  3.01 /LF 3.250  3.01 /LF 3.250  3.01 /LF 3.250  3.01 /LF 3.250  3.01 /LF 3.250  3.01 /LF 3.250
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			12 Janes C							3.1			
		Neilson Construction - 2010		Fencing, barbed wire, 3 strand - 2011			Front end loader 3 CY - 2011		Concrete Ready Mix 8000 psi		Front end loader 3 CY - 2011	Front end loader 3 CY - 2011	Materials
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Total	Subtotal	Foreman and 4X4 Pickup		Subtotal	Remove Barbed Wire	Fence	Subtotal topy contage of the contage	d i de de	Spread Topsoil	Subtotal	Plug Well Casing	Subtotal	Fill in Mud Pil	Grade and Backfill	Description
		Neilson Construction - 2010			Fencing, barbed wire, 3 strand - 2011			TION ON NAME OF THE PARTY OF TH	Front end loader 3 CY - 2011		Concrete Ready Mix 8000 psi		Front end loader 3 CY - 2011	Front end loader 3 CY - 2011	Materials
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Revised January 2011

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Total	Subtotal	Foreman and 4X4 Pickup	Support	Subtotal	Remove Barbed Wire	Fence	Subtotal		Spread Topsoil	Subtotal	Plug Well Casing	Subtotal	Fill in Mud Pit	Grade and Backfill	Degas Well G9
1997年の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の		Neilson Construction - 2010		の (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Fencing, barbed wire, 3 strand - 2011				Front end loader 3 CY - 2011		Concrete Ready Mix 8000 psi	・ 「 「	Front end loader 3 CY - 2011	Front end loader 3 CY - 2011	
		Nielson Construct			02 41 13 60 1650				31 23 16 42 1601		03310 220 0412		31 23 16 42 1601	31 23 16 42 1601	Reference
	10 A 400 A	5		8.4%	-				_		2				Cost
		56.5 hr	$\parallel$		1.96 /LF			$\dagger$	06 /CY	10 mm at 20	227 /CY	454 (2000)	1.06 /CY	1.06 /CY	ļ ģ
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		$\parallel$	$\parallel$		1300			+					$\parallel$	$\parallel$	VVIGE
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					$\frac{\square}{\square}$						H		$\frac{\prod}{\prod}$	H	Factor
	Sec. 10.01	$\parallel$			$\prod$						$\prod$		H	H	r Quantity
		16 hr			1300 FT			$\prod_{i=1}^{n}$	1574 CY	12 18 11	21 CY		430 CY	575 CY	Mity
$\ $								$\ $	+		#		$\parallel$	$\parallel$	Cost
	904	904		2548	2548		1668		1668	4767	4767	1066	456	610	

Ref.																
Description	Degas Well G10 Grade and Backfill	Fill in Mud Pil	Subtotal	Plug Well Casing	Subtotal	Spread Topsoil		Subtotal	Fence	Remove Barbed Wire	Subtotal	Support	Foreman and 4X4 Pickup	Subtotal	Total	Lora
Materials	Front end loader 3 CY - 2011	Front end loader 3 CY - 2011		Concrete Ready Mix 8000 psi		Front end loader 3 CY - 2011				Fencing harbed wire 3 strand - 2011			Neilson Construction - 2010			
Means Reference Number	Number 31 23 16 42 1601	31 23 16 42 1601		03310 220 0412		31 23 16 42 1601				02 41 13 60 1650			Nielson Construct			
Unit Unit	1.06 /CY	1.06 /CY		227 ICY		1.06 /CY				1 96 /LF			56.5 hr			
Length Width											+					-
Height Diameter Area																
Area Volume	922	622		21		2344				1200	The second second second second				A LANGUAGE CONTRACTOR	
Weight Density						4		*		0						3
Time Number					A Complete											
Unit Swell Factor	CY	СҮ		СҮ		СҮ	СҮ						hr	-	21	
Quantity Unit	922 CY	622 CY		21 CY		2344 CY	0 CY			1200 FT			0 hr			
Cost	977	659	1636	4767	4767	2485	0	2485		2352	2352		О	•		11240

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Total	Subtotal	Foreman and 4X4 Pickup	Support	П	Subtotal	Remove Barbed Wire	Fence	Quototal			Spread Topsoil	Subtotal	Plug Well Casing	Subtotal	Fill in Mud Pit	Grade and Backfill	Degas Well G11	Description
		Neilson Construction - 2010				Fencing, barbed wire, 3 strand - 2011					Front end loader 3 CY - 2011		Concrete Ready Mix 8000 psi		Front end loader 3 CY - 2011	Front end loader 3 CY - 2011		Materials
		Nielson Construct				02 41 13 60 1650					31 23 16 42 1601	Company of the compan	03310 220 0412		31 23 16 42 1601	31 23 16 42 1601		Reference Number
		56.5 hr			The Botton College	1.96 /LF					1.06		227 /CY		1.06 /CY	1.06 /C1	3	Cost
		3				/LF					.06 /CY		ЮY		/CY	/CY	Š	
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9487	904				2156	2150					269	4767	4767	1381		456	935	

701	Sut	Fo	Su	Sul	Re	Fence	Sut	Spi	Sut	Ple	Sut	Fil	Gra	D <sub>eg</sub>
Total	Subtotal	Foreman and 4X4 Pickup	Support	Subtotal	Remove Barbed Wire	nce	Subtotal	Spread Topsoil	Subtotal	Plug Well Casing		Fill in Mud Pit	Grade and Backfill	Degas Well G12
		Neilson Construction - 2010			Fencing, barbed wire, 3 strand - 2011			Front end loader 3 CY - 2011		Concrete Ready Mix 8000 psi		Front end loader 3 CY - 2011	Front end loader 3 CY - 2011	Materials
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Nielson Construct		September 1	02 41 13 60 1650			31 23 16 42 1601		03310 220 0412		31 23 16 42 1601	31 23 16 42 1601	Reference Number
	100			10 10 10 10 10 10 10 10 10 10 10 10 10 1							14			Cost
		56.5 hr	$\parallel$		1.96 /LF	$\parallel$		.06 /CY		227 /CY		1.06 /CY	.06 /CY	
		#		10.00		$\parallel$								Length
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				Section 1	$\parallel$					$\parallel$		$\perp \mid$	+	
				and the		Ц	5.00 May 10.00				- AMP			Height
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	機が、			The second					S. Protection Co.					Area
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Total .	Subtotal		Foreman and 4X4 Pickup	Support	Subtotal		Remove Barbed Wire	Fence	Subtotal			Spread Topsoil	Subtolal	Flug Well Casing		ii.	Fill in Mud Pit	Grade and Backfill	Degas Well G13	Description
0.00													i i						L	
			Neilson Construction - 2010			TOTAL PRINCIP CONTRACT TOTAL	Fencing harhed wire 3 strand - 2011		The second secon			Front end loader 3 CY - 2011		Concrete Ready Mix 8000 psi	A STATE OF THE STA		Front end loader 3 CY - 2011	Front end loader 3 CY - 2011		Materials
		Microsoft Constituto	Nielson Construct			41.000	02 41 13 60 1650					31 23 16 42 1601		03310 220 0412			31 23 16 42 1601	31 23 16 42 1601		Means Reference Number
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		$\frac{1}{1}$	$\frac{1}{1}$				-	-	4				*						_	Height
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		+			V.		-					2162	3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	21	100 A 100 C		430	1393		Weight
		+				+			5 S	-			- P. C.	H					-	Density
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		16 hr			ř.	1300 FT					1	2162 CY		21 CY	- M		430 CY	1393 CY		Quantity Unit
		3				F					9	3		CY			CY	१		- 1
	904	904			2548	2548			2292		14.0	2202	4767	4767	1933		456	1477		Cost

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Total		Subjected	Foreman and 4X4 Pickup	Support	Subtotal	Remove Barbed Wire	Fence	Subtotal	opread ropson	Cabona	Surficial Casing	Blig Well Cooks	Subtotal	Fill in Mud Pit	Degas Well G14	cesoribilar
			Neilson Construction - 2010			Fencing, barbed wire, 3 strand - 2011		20日 19日 日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日	From end loader 3 CY - 2011		Concrete Ready Mix 8000 psi	(Annual 1)	TOTAL COMPANY OF THE PARTY OF T	Front and loader 3 CV - 2011		Materials
	200		Nielson Construct		Section of the sectio	02 41 13 60 1650			31 23 16 42 1601		03310 220 0412		31 23 10 42 100	31 23 16 42 1601		Means Reference Number
			56			1.9		78 C PW	1.0		22			1.0		Cost
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					i va valghika,				12			West of the State				Volume
	and the second		+						1544		21		430	429		Weight
						$\parallel$				A BURNEY	$\frac{1}{1}$	8			-	Density
								The state of the s								Time
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			Dr.	$\Box \Box$		7			१		Q Q	4 - Page 100 S	СҮ	СХ	-	er Unit
					1					17		10 mm			1	Swell
			16 17			1100 FT			1544 CY		21 CY		430 CY	429 CY		Quantity Unit
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	904	004	900		21.66	2156		1637	1637	4767	4767	911	456	455		ST.

								$\coprod$				Ц	7				Ref.
Total	Sublotal	Foreman and 4X4 Pickup	Support	Subtotal	Remove Barbed Wire	Fence	Subtotal		Spread Topsoil	Subtotal	Fing even Casing		Subtofal	Fill in Mud Pit	Grade and Backfill	Degas Well G15	Description
		Neilson Construction - 2010			Fencing, barbed wire, 3 strand - 2011				Front end loader 3 CY - 2011		Concrete Ready Mix 8000 psi	(A)		Front end loader 3 CY - 2011	Front end loader 3 CY - 2011		Materials
		Nielson Construct			02 41 13 60 1650				31 23 16 42 1601		03310 220 0412			31 23 16 42 1601	31 23 16 42 1601		Means Reference Number
		56.5 hr			1.96 /LF				1.06 /CY		227 /CY			1.06 /CY	1.06 /CY		Unit Unit Cost
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					1100		E 17 (17 (19 )										Length
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			100					+			$\dagger \dagger$	# # # # # # # # # # # # # # # # # # #					Swell
		16 hr			1100 FT				1475 CY		21 CY			430 CY	1106 CY		Quantily Unit
11010	904	904	2130	246	2156		1564		1564	4767	4767	1628		456	1172		Cost

То	စ္	H	7		2	Re	Fe	Su	+	1 6		2	P	ရွ	I	و	2 0	Ref.
Total	Subtotal		Foreman and 4X4 Pickup		Subinial	Remove Barbed Wire	Fence	Subtotal		Spread Topsoil		Subinfal	Plug Well Casing	Subtofal	Till in Mud Pit	Grade and Dackilli	Degas Well G16	Coordinate
		TOTO NOTE OF THE PERSON NAMED IN COLUMN NAMED	Neilson Construction - 2010			Fencing, barbed wire, 3 strand - 2011				Front end loader 3 CY - 2011	5		Concrete Ready Mix 8000 psi		Front end loader 3 CY - 2011	From and loader 3 CY - 2011		materials
17 July 200		Melacii Colladuci	Nielson Construct	Francisco Contractor of		02 41 13 60 1650		en en en en en en en en en en en en en e		31 23 16 42 1601	- 1 (2) (2) (2) (2) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3		03310 220 0412		31 23 16 42 1601	31 23 16 42 1601		Means Reference Number
		30.3	50 6		1.00	1 96 // 6				1.06 /CY			227 /CY		1.06 /CY	1.06 /CY		Cost
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				で、一次の大学の表情がある。									_					Diameter Area
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		16									20 may 20 m							Time
7.10	2000 May 2000 2000 2000 2000 2000 2000 2000 20	hr			1					CY	Charles M. Friday S.		2	S Towns of the second	СҮ	СҮ		Number Unit
				90 00														Swell
		16 hr			1100 FT					1092 CY			3,		430 CY	800 CY		Quantily Unit
10380	904	904		2156	2156			1158		1158	4767		1767	1304	456	848		Cost

Total	ရွ	7	ပ္ခ	2	뒣	- Fe	ရု	မ္မ	ရ	밀	SI S		ရှ	D <sub>0</sub>	
otal	Subtotal	Foreman and 4X4 Pickup	Support	Subtotal	Remove Barbed Wire	Fence	Subtotal	Spread Topsoil	Subtotal	Plug Well Casing	Subtotal	Fill in Mud Pit	Grade and Backfill	Degas Well G17	Description
		Neilson Construction - 2010			Fencing, barbed wire, 3 strand - 2011			Front end loader 3 CY - 2011		Concrete Ready Mix 8000 psi		Front end loader 3 CY - 2011	Front end loader 3 CY - 2011		Materials
		Nielson Construct			02 41 13 60 1650			31 23 16 42 1601		03310 220 0412		31 23 16 42 1601	31 23 16 42 1601	Number	Vice 10
		ν.								2				Cost	
		56.5 hr	$\parallel$		1.96 /LF	$\parallel$		.06 /CY		227 /CY		.06 /CY	.06 /CY	-	9
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		$\parallel$	$\parallel$		1200		Man Callanda			$\parallel$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\parallel$			T T T T T T T T T T T T T T T T T T T
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			$\dagger$							$\dagger$				Factor	1 CWC
$\dagger$	200	$\prod$			12			7		$\parallel$			7		- Contract
		16 hr			1200 FT			797 CY		21 CY		430 CY	756 CY		9
10125	904	904		2352	2352		845	845	4767	4767	1257	456	801		COST

		$\prod$							Month.		-6			Ref.
Total	Subtotal	Foreman and 4X4 Pickup	Support	Subtotal	Remove Barbed Wire	Fence	Subtotal	Spread Topsoil	Subtolal	Plug Well Casing	Subtotal	Fill in Mud Pit	Grade and Backfill	Description Description
		Neilson Construction - 2010			Fencing, barbed wire, 3 strand - 2011			Front end loader 3 CY - 2011		Concrete Ready Mix 8000 psi		Front end loader 3 CY - 2011	Front end loader 3 CY - 2011	Materials
		Nielson Construct		21 20 20 20 20 20 20 20 20 20 20 20 20 20	02 41 13 60 1650			31 23 16 42 1601		03310 220 0412	ý.	31 23 16 42 1601	31 23 16 42 1601	Means Reference Number
		56.5 hr			1.96 /LF			1.06 /CY	- 1200 est 120	227 /CY	Table 1	1.06 /CY	1.06 /CY	Cost
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														Height
														Diameter Area
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			$\prod$	10 Sept. 10	$\parallel$			2037		21		430	1393	Volume Weight
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		16 hr			1300 FT			2037 CY		21 CY		430 CY	1393 CY	Quantity Unit
			$\prod$				3-	1						nit Cost
12311	904	904		2548	2548		2159	2159	4767	4767	1933	456	1477	yst

				8.							all all the second			Ref.
Total	Subtotal	Foreman and 4X4 Pickup	Support	Subtotal	Remove Barbed Wire	Fence	Subtotal	Spread Topsoil	Sublotal	Plug Well Casing	Subtotal Subsection of the Sub	Fill in Mud Pit	Grade and Backfill	Decree Mail 018
	And the second s	Neilson Construction - 2010			Fencing, barbed wire, 3 strand - 2011			Front end loader 3 CY - 2011		Concrete Ready Mix 8000 psi		Front end loader 3 CY - 2011	Front end loader 3 CY - 2011	Waterials
		Nielson Construct			02 41 13 60 1650			31 23 16 42 1601		03310 220 0412		31 23 16 42 1601	31 23 16 42 1601	Reference
		56.5 hr			1.96 /LF			1.06 /CY		227 /CY	(# 2 ) The Control	1.06 /CY	1.06 /CY	Cost
		$\frac{1}{1}$	+			$\parallel$				$\dagger$		$\parallel$		- Congress
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		¥			FI			CY		СУ		СҮ	СҮ	Cni
	10 m										And the second			Factor
		24 hr			1300 FT			2195 CY		21 CY	Specification of the second	430 CY	6962 CY	Quantity Unit
1881	1356	1356		2548	2548		2327	2327	4767	4767	7836	456	7380	Cost

																				Ref.
Total		Subtofal	Foreman and 4X4 Pick	Support	GEOGRAFIA				Capicial	0		Spread Topsoil	Subtotal			Subtotal		Grade and Backfill	AMV ROAD	paci
			Foreman and 4X4 Pickup Neilson Construction - 2010									Front end loader 3 CY - 2011						Front end loader 3 CY - 2011		Matcidio
			Nielson Construct						The second secon			31 23 16 42 1601						31 23 16 42 1601		Reference Number
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Total	Subtotal	Foreman and 4X4 Pickup	Support	Subtotal	Remove Barbed Wire	Fence (only pad)	Sublotal		Spread Topsoil	Subjoidi		Plug Well Casing	Subtotal	Fill in Mud Pit	Grade and Backfill	Degas Well G22 and Access Road	Description
		Neilson Construction - 2010			Fencing, barbed wire, 3 strand - 2011				Front end loader 3 CY - 2011			Concrete Ready Mix 8000 psi		Front end loader 3 CY - 2011	Front end loader 3 CY - 2011		Materials
		Nielson Construct			02 41 13 60 1650				31 23 16 42 1601			03310 220 0412		31 23 16 42 1601	31 23 16 42 1601		Means Reference Number
1		$\prod$			1.96				1.06			227		1.0	1.0		Cost
		56.5 hr			6 /LF	$\parallel$			6 /CY	1		7/CY		.06 /CY	.06 /CY		Onit
1		$\dagger$	$\parallel$			$\dagger$		+				$\dagger$					Length
+			+		1300	$\parallel$						+				_	
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					$\parallel$							T					Width Height Diameter Area Volume
					$\dagger$												Area
				24 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					2103			25		430	7386		Volume
T		Ħ									ĺ						Weight
			$\ $									Ī					Weight Density Time
		32					110000										
	A SEC 100																Number Unit
		h			FT				СҮ		-	3		СХ	СҮ		Unit
		$\parallel$		Ħ	1				Ħ	+	H	T		$\dagger \dagger$	П	-	Swell
		$\parallel$		Ga.			30		2:			t			73		Quantit
		32 hr	H		1300 FT	$\parallel$			2103 CY		2	2		430 CY	7386 CY		Quantity Unit
200	1808	1808		2548	2548		2229		2229	5675	3073	6676	8285	456	7829		Cost

Dugout Canyon C/007/039

		(6	70	(0)			70	-10						3			6					Ref.
Total		Subtotal	oreman and 4X4 Picku	Support	SUDIOIGI	htotal	Remove Barbed Wire	Fence	T. O. C.	Subtotal		Spread Topsoil		Subtotal	Plug Well Casing		Subtotal	THE IN MICE PR		Grade and Backfill	Degas Well G25	Description
			Foreman and 4X4 Pickup Neilson Construction - 2010				Fencing, barbed wire, 3 strand - 2011					Front end loader 3 CY - 2011			Concrete Ready Mix 8000 psi			Front end loader 3 CY - 2011		Front end loader 3 CY - 2011		Materials
			Nielson Construct				02 41 13 60 1650					31 23 16 42 1601			03310 220 0412			31 23 16 42 1601	0, 20 10 10 100	31 23 18 42 1801		Means Reference Number
			56.5 hr				1.96 /LF					1.06 /CY			227 /CY			1.06 /CY	- 6	200		Cost
			Tr.		L.		/F					/CY			/CY			/CY	Č	Ŝ		Unit
						500	1300						1000									Length
														Ī								Width
									10.0							M 40						Height
	T																					Diameter Area
					7	1						$\dagger$									l	Area
						1		1		1		1406			21			430	1406	-		Volume
İ					7800					T	H				1			0	6			Weight
					1、東京航機の10	T						T				-6600						Density
					20 May 1 May				A.S. T. C. W. C.									1				Time
			24															1			_	Number
	¥.		7			E					5				Ç		1	2	СY			Unit
			$\dagger$								$\dagger$	+		1	$\dagger$		†	1		_		Swell
			24			1300 FT					1406 CY				91 CY		100	430 CV	1406 CY			Quantity Unit
	1356	1000	1355	2040	SCAR	2548			1400		1490		4767	4.0	4767	1946	400		1490		_	Cost

				100			54									Ref.
Total	Subtotal	Foreman and 4X4 Pic	Support	Subtotal	Remove Barbed Wire	Fence	Subtotal	Spread Lopsoil	Cuciotal	o hold	Plug Well Casing	Subtotal	Fill in Mud Pil	Grade and Backfill	Degas Well G26	Descripcon
		Foreman and 4X4 Pick Neilson Construction - 2010			Remove Barbed Wire Fencing, barbed wire, 3 strand - 2011			Front end loader 3 CY - 2011		constant found into according	Concrete Beady Mix 8000 noi		Front end loader 3 CY - 2011	Front end loader 3 CY - 2011		Waterials
		Nielson Construct		The second field	02 41 13 60 1650			31 23 16 42 1601		03310 220 04 12	222		31 23 16 42 1601	31 23 16 42 1601		Means Reference Number
		56.5 hr			1.96 /LF		36. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	1.06 /CY		221 1/01			1.06 /CY	1.06 /CY		Cost
	5			STATE OF STATES	1300								Ħ			Length
	a september															Width
				100					3 4							Height
							2		100							Diameter Area
																Area
*								1080		21			430	1080		Volume
	All of the last			00 00 00 00 00 00 00 00 00 00 00 00 00			200 200 200 200 200									Weight
									Charles II							Density
		24														Time
Partie.	N. Color			No.			P. Object									Number
		ĭ			FT			СҮ	Į.	СҮ			СХ	१		Unit
																Swell
		2		Control of the contro	130			108		21			43	108	ļ	Quantity Unit
		24 hr			1300 FT			1080 CY		CY			430 CY	1080 CY		Unit
	1356	1356		2548	2548		1145	1145	4767	4767	1601		456	1145	+	Cost

Dugout Canyon C/007/039

71		0	ייב	S		9	R	Ti	8		0		Ø	9		ام	T-1			Ref	
Total	oubiolai	The control of the co	Foreman and 4X4 Pickup	Support		Subtotal	Remove Barbed Wire	Fence	Subtotal		Spread Topsoil		Subtotal	Plug Well Casing	September 2	Silvintal	Fill in Mud Pit	Grade and Backtill	Degas Well G29	Description	
			Neilson Construction - 2010				Fencing, barbed wire, 3 strand - 2011				Front end loader 3 CY - 2011			Concrete Ready Mix 8000 psi			Front end loader 3 CY - 2011	Front end loader 3 CY - 2011		Materials	
			Nielson Construct				02 41 13 60 1650		AT TO MAKE THE RESIDENCE		31 23 16 42 1601			03310 220 0412	10年7月の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の		31 23 16 42 1601	31 23 16 42 1601		Means Reference Number	
			56.5 hr		100		1.96				1.06	- Table 1		22:	W. Child Co.		1.00	1.00		Cost	
			3				.96 /LF				1.06 /CY	1000		227 /CY			.06 /CY	1.06 /CY		Unit	
							1300								E 200					Length	
							5			H											
					South										\$ 3 K . S					Height	
					1000							5. July 1			and the second					Width Height Diameter Area	
T												Section 4		1						Area	
					Specifical in			1			1363	0.00		21	が 一 一 本ので		430	1363		Volume	
						1		T			3	第 4		+	100		0	ω		Weight	
	ingratei ja r	1		$\dagger$								The state of the s		1			1		1	Density	
	4 10	T			724 85	1								T	N.			Ħ		Time	
		24			17 44	+	H				$\parallel$	1						$\parallel$	1	Number	
	3 2 2 2 2	12			0.00	=			of the second	+	१	No. of the	1	2	30,000		2	ঽ	-	r Unit	
		I		$\parallel$		1						10 m	<u> </u>	+	e ingestion	+	I			Swell	
		_	$\ \cdot\ $			-	$\ \cdot\ $				H		1					H		7	
	10 A	24 hr				1300 FT	$\ \cdot\ $				1363 CY		21.01	2	1000	430 07	20	1363 CY		Quantity Unit	
	1356	1356			2548	2548			1445		1445	4767	4/6/		1901	456		1445		Cost	

			П	D. 971.5										Ref
Total	Subtotal	Foreman and 4X4 Picku	Support	Subtotal	Remove Barbed Wire	Fence	Subtotal	Spread Topsoil	Subtotal	Plug Well Casing	Subtotal	Fill in Mud Pit	Grade and Backfill	Description
		Foreman and 4X4 Pickup Neilson Construction - 2010			Fencing, barbed wire, 3 strand - 2011		· · · · · · · · · · · · · · · · · · ·	Front end loader 3 CY - 2011		Concrete Ready Mix 8000 psi	Section 2017 1 and	Front end loader 3 CY - 2011	Front end loader 3 CY - 2011	Materials
	7	Nielson Construct			02 41 13 60 1650			31 23 16 42 1601		03310 220 0412	on the state of th	31 23 16 42 1601	31 23 16 42 1601	Means Reference Number
		56.5 hr			1.96 /LF		Supplies of the second	1.06 /CY		227 /CY	Policia Nobelo	1.06 /CY	1.06 /CY	Cost Unit
					1300									Length
					8									Width
				The state of the state of			10 At 5 C Hay 5 C 1							Height Dia
									100 100 100		おない a 大変を含			Diameter Area
								4624		21		430	8470	Volume
				1.16 St. Skellomin (Jali										Weight
				General Control										Density
		32		1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							Time
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				on the second of					1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					Number Unit
		Tr.		and the second	FT			СҮ		СУ		ςγ	СҮ	
				SAMPLE ST										Swell (
		32 hr			1300 FT			4624 CY		21 CY		430 CY	8470 CY	Quantity Unit
		ħr						CY		)Y		X	Y	
23458	1808	1808		2548	2548		4901	4901	4767	4767	9434	456	8978	Cost

	Cost
Facilities Area 01	331555
Facilities Area 02	133361
Stream Channel 03	34868
Refuse Pile 04	300305
Pace Canyon Fan Portal	12291
Subtotal	812380

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Equipment   Cost   Co					Operator's		Number	Total						T	
18485 803 0.1 55.4 259.26 1 259.26 \$\text{SHR}\$ 118169 CY 184 CYHR  18485 80.3 0.1 55.4 259.26 1 259.26 \$\text{SHR}\$ 19926 CY 680 CYHR  18485 80.3 0.1 55.4 259.26 1 259.26 \$\text{SHR}\$ 19926 CY 680 CYHR  9615 38.75 0.1 55.4 158.12 1 158.12 \$\text{SHR}\$ 58490 CY 876 CYHR  15170 66.35 0.1 55.4 223.2 1 223.2 \$\text{SHR}\$ 10000 CY 308 CYHR  7170 32.65 0.1 55.4 136.13 1 136.13 \$\text{SHR}\$ 8342 CY 204 CYHR  4990 31.95 0.1 43.3 109.63 1 109.63 \$\text{SHR}\$ 8342 CY 204 CYHR  900 5.4 0.1 0 56.5 1 56.5 \$\text{SHR}\$	Dugout Mine	l ž	-		Hourly Wage Rate	Hourly Cost	of Men or Eq.	Eq. & Lab.	Units	Quantity	Units	Production Rate	- Inits	Equip. +	י. + אור +
18485 80.3 0.1 55.4 259.26 1 259.26 SHR 118189 CY  18485 80.3 0.1 55.4 259.26 1 259.26 SHR 19926 CY  9615 38.75 0.1 55.4 158.12 1 158.12 SHR 58490 CY  15170 66.35 0.1 55.4 223.2 1 223.2 SHR 10000 CY  7170 32.65 0.1 55.4 136.13 1 136.13 SHR 8342 CY  4990 31.95 0.1 43.3 109.63 1 109.63 SHR  900 5.4 0.1 43.3 109.63 1 109.63 SHR  900 5.4 0.1 0 56.5 1 56.5 SHR	Facilities Area 01 Cut and Fill at Mine Site						ļ.		Cinc	a control y	Ç.	Zaie	Units	I ime/Uis	Ois
18485 80.3 0.1 55.4 259.26 1 259.26 \$IHR 118169 CY  18485 80.3 0.1 55.4 259.26 1 259.26 \$IHR 118169 CY  18485 80.3 0.1 55.4 259.26 1 259.26 \$IHR 19926 CY  9515 38.75 0.1 55.4 158.12 1 158.12 \$IHR 58490 CY  15170 66.35 0.1 55.4 223.2 1 223.2 \$IHR 10000 CY  7170 32.65 0.1 55.4 136.13 1 136.13 \$IHR 8342 CY  4990 31.95 0.1 43.3 109.63 1 109.63 \$IHR 900 5.4 0.1 43.3 109.63 1 109.63 \$IHR 900 5.4 0.1 43.5 \$IHR 900 5.4 0.1 43.5 \$IHR 900 5.4 0.1 900 5.6 5 1 5.6 5 \$IHR 900 5.4 0.1 900 5.6 5 1 5.6 5 \$IHR 900 5.6 5 \$IHR 90															
18485 80.3 0.1 55.4 259.26 1 259.26 S/HR 118169 CY  18485 80.3 0.1 55.4 259.26 1 259.26 S/HR 19926 CY  9615 38.75 0.1 55.4 158.12 1 158.12 S/HR 58490 CY  15170 66.35 0.1 55.4 223.2 1 223.2 S/HR 10000 CY  7170 32.65 0.1 55.4 136.13 1 136.13 S/HR 8342 CY  4990 31.95 0.1 43.3 109.63 1 109.63 S/HR  900 5.4 0.1 43.3 109.63 1 109.63 S/HR  900 5.4 0.1 65.6 1 56.5 S/HR								Ī							
18485 80.3 0.1 55.4 259.26 1 259.26 \$JHR 118169 CY  18485 80.3 0.1 55.4 259.26 1 259.26 \$JHR 118169 CY  9615 38.75 0.1 55.4 158.12 1 158.12 \$JHR 58490 CY  15170 66.35 0.1 55.4 223.2 1 223.2 \$JHR 10000 CY  7170 32.65 0.1 55.4 136.13 1 136.13 \$JHR 8342 CY  4990 31.95 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 1 109.63 \$JHR 990 5.4 0.1 43.3 109.63 \$JHR	Equipment														
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18485 80.3 0.1 55.4 259.26 1 259.26 \$HR 19926 CY  9615 38.75 0.1 55.4 158.12 1 158.12 \$HR 58490 CY  15170 66.35 0.1 55.4 223.2 1 223.2 \$HR 10000 CY  7170 32.65 0.1 55.4 136.13 1 136.13 \$HR 8342 CY  4990 31.95 0.1 43.3 109.63 1 109.63 \$HR  900 5.4 0.1 43.3 109.63 1 109.63 \$HR  900 5.4 0.1 43.3 109.63 1 109.63 \$HR		10400	80.3	0.1	55.4	259.26	_	259.26	\$/HR	118169	СУ	184	CYHR		642 2 HR
18485 80.3 0.1 55.4 259.26 1 259.26 SMHR 19926 CY  9515 38.75 0.1 55.4 158.12 1 158.12 SMHR 58490 CY  15170 66.35 0.1 55.4 223.2 1 223.2 SMHR 10000 CY  7170 32.65 0.1 55.4 136.13 1 136.13 SMHR 8342 CY  4990 31.95 0.1 43.3 109.63 1 109.63 SMHR 900 5.4 0.1 43.3 109.63 1 109.63 SMHR 900 5.4 0.1 43.3 109.63 1 109.63 SMHR	Finished Grading														
9615 38.75 0.1 55.4 158.12 1 158.12 \$I/HR 58490 CY  15170 66.35 0.1 55.4 223.2 1 223.2 \$I/HR 10000 CY  7170 32.65 0.1 55.4 136.13 1 136.13 \$I/HR 8342 CY  4980 31.95 0.1 43.3 109.63 1 109.63 \$I/HR 900 5.4 0.1 40.55 \$I/HR 100.05	U9R Semi-U EROPS (9-54) (2H2005)	18485	80.3	0.1	55.4	259.26		259.26	\$/HR	19926	СҮ	SRO SRO	CYILD		3
7170 66.35 0.1 55.4 136.13 1 136.13 \$IHR 10000 CY  7170 32.65 0.1 55.4 136.13 1 136.13 \$IHR 10000 CY  7490 31.95 0.1 43.3 10963 1 10963 \$IHR 10000 CY  900 5.4 0.1 0 56.5 1 56.5 \$IHR 100.5	815F ((6-13) (1H2005))	264									-		0.51		23.3 ПК
15170 66.35 0.1 55.4 223.2 1 223.2 S/HR 10000 CY  7170 32.65 0.1 55.4 136.13 1 136.13 S/HR 8342 CY  4990 31.95 0.1 43.3 10.963 1 10.963 S/HR  900 5.4 0.1 0 56.5 1 56.5 S/HR		9015	38./5	0.1	55.4	158.12	1	158.12	\$/HR	58490	СҮ	876	CY/HR		66.8 HR
7170 32.65 0.1 55.4 136.13 1 136.13 \$IHR 8342 CY  4990 31.95 0.1 43.3 109.63 1 109.63 \$IHR 900 5.4 0.1 0 56.5 1 56.5 \$IHR 900 5.4 0.1 0 56.5 1 56.5 \$IHR 900 5.4 0.1 0 56.5 1 56.5 \$IHR 900 5.4 0.1 0 56.5 1 56.5 \$IHR 900 5.4 0.1 0 56.5 \$IHR 900 5.5 \$IHR 900 5.4 0.1 0 56.5	CAT 345BL II (10-23)(2nd2005) 2005	15170	66.35	0 1	227	222	4	33							
7170 32.65 0.1 55.4 136.13 1 136.13 SHR 8342 CY  4990 31.95 0.1 43.3 10.963 1 42.65 SHR  900 5.4 0.1 0 56.5 1 56.5 SHR	ORAC Carios II EBORS (0.36) (3-Jacobs)				00.1	7.677		223.2	¥17.	10000	CY	308	CY/HR	T	32.5 HR
4990 3195 0.1 433 10963 1 42.65 \$HR 900 5.4 0.1 0 56.5 1 56.5 \$HR	2000 Selies II EROFS (9-36) (2hd2005)	7170	32.65	0.1	55.4	136.13		136.13	\$/HR	8342	СА	204	CY/HR	T	40 0 HB
4990 3195 0.1 43.3 10963 1 900 5.4 0.1 0 56.5 1	Support Personel and Labor											,	0 111 (1)		į
900 3195 0.1 433 10963 1 900 54 0.1 0 565 1	CLAB					20.00									
900 5.4 0.1 0 56.5 1	5,000 gal H2O truck Diesel (20-17) (2nd2005)	4990	31 95	0 1	333	42.00		42.65	\$/HR						642.2 HR
34 01 0 565 1	Foreman & 4X4 Pickup Nielson 2010	000	5	0 0	40.0	109.63	1	109.63	\$/HR						642 2 HR
Subjoial	Section of the sectio	900	5.4	0.1	0	56.5	1	56.5	\$/HR						842.2 HR
Subjotal															416.6
Subjota															
	Subtotal														

	Subtotal					Foreman & Pickup Nielson 2010	5,000 gal H2O truck to	CLAB	Support Personel and Labor		6X4 70,000lbs 12-18	9666 Series II EROPS (9-36) (2nd2005)	Pocking Handled in Vegetation Section		D9R Semi-U EROPS (9-54) (2H2005)	A CODOCI	Mary toposil	Topsoil Disturbution	Facilities Area 02	Discout Mine
						elson 2010	5,000 gal H2O truck Diesel (20-17) (2nd2005)		1 Labor	7	6X4 70,000lbs 12-18 CY (20-11) (2nd2005)	5 (9-36) (2nd2005)	egetation Section		(9-54) (2H2005)					
						900	4990			0.10	377F	7170			18485					Equipment Cost
						5.4	31.95			01.20	31 25	32.65			80.3					Operating Costs
							0.1			9	2	0.1			0.1					Equipment Overhead
							43.3			43.3	3	55.4			55.4					Hourly Wage Rate
					00.0		100	49		00.90		136.13			259 26				-	Hourly Cost
							1	٠.		σ					4					of Men or Eq.
					00.0	56 5 6/LD	100 63	49		605.76 \$/HR		136.13 \$/HR		200.20	350 36 <b>6/HD</b>					Eq. & Lab. Costs
					00.0 WITK	9 6	6/10	49 \$/HR		STR		\$/HR		91.13	6/10					Units
										21460 CY		21460 CY		21400 01	21.460					Quantity
										2		СУ		2	2					Units
										204		204		101						Production Rate
										204 CY/HR		204 CY/HR		O4 CT/HK	CVIII					Units
					116.6 HR	116.6 HR	110.0 HK			105.2 HR		105.2 HR		116.6 HK						Equip. + Labor Time/Dis.
					五	E		5		품		Æ		<del>-</del>						Units
132261					6588	12783	5/13			63726		14321		30230						Cost

34868	5											STEP OF THE STATE OF	01.40 July 10	CONTRACTOR	Subtotal:
2599	46 HR	46					56.5 \$/HR	56.		56.5	0	0.1	5.4	900	Foreman & 4X4 Pickup Nielson 2010
5043	46 HR	46					109.63 \$/HR	109.6		109.63	43.3	0.1	31.95	4990	5,000 gal H2O truck Diesel (20-17) (2nd2005)
															Support
3430	15.77	1					24.5 VHK		0.5	49					CLAB
14134	48 FR	140	50 CY/HR	50	СҮ	7000 CY	100.96 \$/HR			100.96	43.3	0.1	31.25	3725	6X4 70,000lbs 12-18 CY (20-11) (2nd2005)
158	4 HR	7.4					21.33 \$/HR		0.5	42.65					CLAB
1007	五	7.4	204 CY/HR	204	СҮ	1500 CY	136.13 \$/HR			136.13	55.4	0.1	32.65	7170	966G Series II EROPS (9-36) (2nd2005)
1139	Ŧ	46.5 HR					24.5 \$/HR		0.5	49					CLAB
7358	퓼	46.5 HR	310 CY/HR	310	СҮ	14400 CY	158.23 \$/HR	158.2		158.23	55.4	0.1	39.9	9430	CAT 325BL (10-23)(2nd2005) 2003
															Dugout Mine Stream Channel 03 Remove Culvert and Restore Channel
Cost	Units	Time/Dis.	Units	Rate	Units	Quantity	Units	Costs	or Eq.	Cost	Wage Rate	Overhead		Cost	
		Labor		Production				Eq. & Lab.	of Men	Hourly	Hourly	Equipment Hourly	Operating	Equipment	
		Equip. +						Total	Number		Operator's				

age 4

		11-11-11		,											
	Equipment	Operating	Equipment	Operator's	Hourk		Total						Equip. +		
	Cost	Costs	Overhead	Wage Rate	Cost	or Fo	Coets Coets	1		- - -	Production	:	Labor	:	1
				ķ		_	0000	Q III G	Quality	ÇI II	Kate	Units	Time/Dis.	Units	Cost
Cut and Fill Refuse Site															
D9R Semi-U FROPS (9-54) (2H2005)	10405	900													
5 000 pal H2O talet Dispal (20 17) (2-12000)	0400	00.3	0.1	55.4	259.26	1	259.26 \$/HR	\$/HR	27556 CY	CY	102 (	102 CY/HR	270 2 HB		70050
Sold Bar 150 track Dieser (50-11) (51105003)	4990	31.95	0.1	43.3	109.63	_	109.63 \$/HR	\$/HR					270.2 HR	力	29622
Forman & 4X4 Pickup															
					56.5	_	56.5 <b>\$/H</b> R	SHR					270.2 HR	力	15266
Doze On-site Subsoil/Topsoil															
D8R Series II (9-54) (2nd2005)	14705	59.75	0.1	55.4	213.03		213.03 \$/HR	\$\FR	31156 CY	CY	480	480 CY/HR	64.9 HR	⊅ 	13826
Borrow Area Soils															
Trucking Soil															
CAT 325BL (10-23)(2nd2005) 2003	9430	39.9	0.1	55.4	158.23	_	158.23 \$/HR	\$HR	51820		150	BH/AD 051	346 5 00	6	1,000
0x4 / 0,000103 12-10 CT (20-11) (2nd2005)	3/25	31.25	0.1	43.3	100.96	1.5	151.44 \$/HR	\$/HR	51820		150	50 CY/HR	345 5 HR	7	5000
															25050
Doze Trucked Subsoil															
OD Selles II (3-54) (2102005)	14705	59.75	0.1	55.4	213.03	-1	213.03 \$/HR	\$/HR	51820		171 (	CY/HR	303 HR	为	64548
Subtotal															
A made (A Mal)															300305

	Equipment Cost	Operating Costs	Equipment Operating Equipment Hourly  Cost Costs Overhead Wage Rate	Operator's Hourly Wage Rate	Hourly	Number of Men	Total Eq. & Lab.		Original	i i	Production	5	Equip. +		
Pace Canyon Fan Portal				(			00000	0.110	Coming	Office	Nate	CIRC	i illierus.	Office	Cost
Backfill Shaft															
CAT 325BL (10-23)(2nd2005) 2003	9430	39.9	0.1	55.4	158.23		158.23 \$/HR	\$/HR	641 CY	CY	216	216 CY/HR	رد	3 H.	475
6X4 /0,000lbs 12-18 CY (20-11) (2nd2005)	3725	31.25	0.1	43.3		3							3 C	3 HR	202
															000
Backfill Portal															
DBR Series II (9-54) (2nd2005)	14705	59.75	0.1	55.4	213.03	1	213.03 <b>\$/HR</b>	\$/HR	331 CY	СҮ	171	171 CY/HR	1.9	.9 HR	405
Subsoil Placement															
DBR Series II (9-54) (2nd2005)	14705	59.75	0.1	55.4	213.03	1	213.03 \$/HR	\$/HR	4045 CY	СҮ	90	90 CY/HR	44.9 HR	퓻	9565
Doze On-site Topsoil															
D8R Series II (9-54) (2nd2005)	14705	59.75	0.1	55,4	213.03		213.03 \$/HR	\$/HR	2128 CY	СҮ	480	480 CY/HR	4.4 HR	五	937
Subtotal										1.55					12291

Ref.	Description	Cost
1161.	Dugout Mine Vegetation	122633
	Dugout Mine Refuse Pile	84837
	Pace Canyon Fan Portal	6519
	Degas Well G2	2039
	Degas Well G3	2294
	Degas Well G4	1611
	Degas Well G5	1728
	Degas Well G6	2442
	Degas Well G7	2016
	Degas Well G9	1409
	Degas Well G10	1316
	Degas Well G11	1444
	Degas Well G12	1444
	Degas Well G13	1980
	Degas Well G14	1793
	Degas Well G15	3482
	Degas Well G16	2888
	Degas Well G17	2260
		3143
	Degas Well G18	2352
	Degas Well G19	61854
	AMV Road	
	Degas Well G22 & Access Road	8070
	Degas Well G25	2702
	Degas Well G26	2702
	Degas Well G29	2702
	Degas Well G30	4204
	Degas Well G31	3201
**		
	Total	335065

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1			R	r	5	co		-		A		-		I	I	S	4	1	1 2	Į,		1	II-	E O	,	S		G	F		ρT	S		D	Ref. D	•
Total		Assume 25% reveg rate	Reseeding	Purcet acharament	lined Venetation	Subtotal		Transplant Labor	Transplant Materials	Area	Transplant Area No 2	iny maior	an Milich	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 2	michain rapoi	Transplant Materials	Area	Transplant Area No 1	a) maryn	Hay Milich	Hydroseed Material	Seed MX NO		Subtotal		Silt Fence	Fence	A POLICIER	Pocking	Soil Preparation		Dugout Mine Vegetation	Description	
								Bare root seedlings, 11" to 16" med. soil	Dugout Transplant Mix No 1			may i material only 029105000250	CONTRACT OF THE PROPERTY OF TH	Dinout Seed Mix No 2	Hydro Spreader (equip & labor) B. 81 80MCE/Hay		Baile (out seedings, 11 to 15 med. soil	Dugout Transplant Mix No 1			nay inaterial only 029103000230	Dagodi Seed wix No.1	Private Spreader (equip. & labor) 8-81 80MSF/day				Installation Labor - 2011	Wire Reinforced Silt Fence 3' X100'	Metal T-Posts 5.5 to 6'		Excavation Bulk Bank 3 CY - 2011				Materials	
								02915 400 0562	Dugout 07391T			Reveg001	Dugout 073925	⊥	1		02915 400 0562	Dugout 07391T			Reveguul	Dugout 0/391S	L	L			31 25 14 16 1100	CC Hydraulics - 201	IFA - 2011		31 23 16 42 0300				Reference	
								1 31 Fa	349 /AC			129 TON	/11.25 /AC	19.8/MSF			1.31 Ea	349 /AC			129 TON	394.75 /AC	19.8 /MSF				0 58 FT	55 100/6	\$5.50 EA		1.62 /CY				Unit Cost	
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Total	Assume 25% reveg rate	Reseeding		Subtotal	Transplant Labor	Transplant Materials	ea	Transplant Area No 1	Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Dugout Mine Refuse Pile	_	Description
	-				Bare root seedlings, 11" to 16" med. soil	Dugout Transplant Mix No 1			Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day		5 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	Excavation Bulk Bank 3 CY - 2011				Materials
				_ 8_ 	02915 400 0562	Dugout 07391T			Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Reference Number	
					1.31	349			129	394.75 /AC	19.8		4	1.62			Cost	COL
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84837	8813			35252	81	5444			2012	6158	13464		40772	40772				Cost

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Total		Reseeding	Direct Vegetation	Subtotal						Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G2	Description
				1						Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day			Excavation Bulk Bank 3 CY - 2011		See Note Below	Materials
	14									Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Reference Number
										129 TON	394.75 /AC	19.8 /MSF			1.62 /CY			Cost
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	i k																	Length
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	1.0			0.8						0.45	0.45 AC	20			726 CY			Quantity Unit
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2039	173		1866	⊕ 690						116	178	396		1176	1176			Cost

Area reflects disturbed acreage as surveyed by Cody Ware of Ware Surveying.

	100	A CONTRACTOR	370								7				Ref.
Total	Assume 25% reveg rate	Direct Vegetation	Subtotal				Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G3	Description
							Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day		一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一	Excavation Bulk Bank 3 CY - 2011		See Note Below	Malenals
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Total	Assume 25% reveg rate.	Reseeding		Direct Vegetation	- 13	Subtofal						Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G4	Description
	100			The second secon								Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day			Excavation Bulk Bank 3 CY - 2011		See Note Below	Materials
												Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Reference
				できる と 幸る								129 TON	394.75 /AC	19.8 /MSF			1.62 /CY			Cost
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Total	Assume 25% reveg rate	Reseeding	Direct Vegetation		Subtotal						Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G6		Description
											Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day			Excavation Bulk Bank 3 CY - 2011		See Note Below		Materials
											Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Number	
											129 TON	394.75 /AC	19.8 /MSF			1.62 /CY				Cost
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2442	225		2442		900						152	233	515		1542	1542				Cost

Dugout Canyon Mine C/007/039 Vegetation Costs Revised January 2011

Area reflects disturbed acreage as surveyed by Cody Ware of Ware Surveying.

T				2.2						Γ			П					Ref.
Total	Assume 25% reveg rate	Respection	Direct Vegetation	Sübtotal						Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G7	Description
			- 1980年 - 1997年 - 東京学の大学の大学の大学を表示した。 - 1997年							Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day			Excavation Bulk Bank 3 CY - 2011		See Note Below	Materials
			A SECTION OF THE PROPERTY OF T							Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Reference
										129 TON	394.75 /AC	19.8 /MSF			1.62 /CY			Cost
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2016	184		2016	735						126	193	416		1281	1281			Cost

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Total	Assume 25% reveal rate	Tesecong	Docation	Circle a officiation	Direct Vegetation		Subtotal								Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G9		Description
							the second of th								Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Excavation Bulk Bank 3 CY - 2011		See Note Below		Materials
															Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Reference Number	_
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Total	Assume 25% reveg rate	Reseeding	Direct Venetation	See GOOMAINS STATE	C. Watel							Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation		Degas Well G10	Description
												Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day		La Carte de la Car	Excavation Bulk Bank 3 CY - 2011			See Note Below	Materials
												Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300				Reference Number
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Area reflects disturbed acreage as surveyed by Cody Ware of Ware Surveying.

Printed 2/11/2011

Total	Ass	Dire	Subtotal		H	$\parallel$	Нау	Hydr	Hydr	Subt	Pocking	Soil	Dega	Ref. Desc
	Assume 25% reveg rate	Direct Vegetation	Otal a secondary secondary				Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	otal	ing	Soil Preparation	Degas Well G11	Description
							Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day		Excavation Bulk Bank 3 CY - 2011		See Note Below	materials
							Reveg001	Dugout 07391S	Reveg002		31 23 16 42 0300			Reference Number
							129 TON	394.75 /A	19.8 /MSF		1.62 /CY			Cost
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+					-	$\parallel$	0.32 ton/AC	0.32 AC	14 MSF		516 CY	$\parallel$	+	Q Q
1444	122	1322	486						277	83	836			Ç

Soil Preparation
Pocking
Subtotal

Excavation Bulk Bank 3 CY - 2011

Degas Well G12

See Note Below

Reference Number

Cost

Unit

Length

Width

Height

Diameter Area

Volume Weight Density Time

Number

S<sub>I</sub>

Swell

Quantity

Ē

Cost

Description

Materials

Seed Mix No 1
Hydroseed Equipment and Labor
Hydroseed Material
Hay Mulch

lydro Spreader (equip. & labor) B-81 80MSF/day Dugout Seed Mix No 1 Hay 1" material only 029105000250

Reveg002 Dugout 07391S Reveg001

19.8 /MSF 394.75 /AC 129 TON

Subtotal

Reseeding Assume 25% reveg rate

Area reflects disturbed acreage as surveyed by Cody Ware of Ware Surveying.

Printed 2/11/2011

Color   Colo		1												T		Γ			T					Ref
Bank 3 CV - 2011	Total	, modelli ( ) 40 / 61 / 61 / 61 / 61 / 61 / 61 / 61 / 6	Assume 25% reven rate	Reseeding		Direct Vegetation		Subtotal							Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G13	,	Description
Cost   Unit   Unit   Length   Wolfn   Height   Unit   Height   Unit   Canality   U			The second secon												Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day			Excavation Bulk Bank 3 CY - 2011		See Note Below		Materials
Cost   Unit   Length   Wolfn   Height   Diameter   Area   Volume   Waight   Dinsity   Irme   Number   Unit   Swell   Cuantity   Unit   Factor   Cy															Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Number	Reference
Length Width Height Dansity Ime Number Unit Swell Quantity Unit Factor 2 110 CY  0.444		1													129 TON	394.75 /AC	19.8 /MS							Cost
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Total	Assume 25% reveg rate	Direct Vegetation	Subtotal		Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Packing	Soil Preparation
					Hay 1" material only 029105000250	Dugoul Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day			Excavation Bulk Bank 3 CY - 2011	
					Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300	
		6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6			129 TON	394.75 /AC	19.8 /MSF			1.62 /CY	
					0.4	0.4	0.4			0.4	
					AC	AC	AC			AC	
					0.4 ton/AC	0.4 AC	17 MSF			645 CY	
		1.	i.								

Degas Well G14

See Note Below

Reference

Cost

Unit

Length Width Height Diameter Area

Volume Weight Density

Time Number

Cni

Swell

Quantity

				T		Γ		T	T					1000	Ī		T	Ref.
Total	Assume 25% reveg rate	Reseeding	Direct Venetation	Plant of the last	Children					Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G15	Description
			The state of the s							Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day			Excavation Bulk Bank 3 CY - 2011		See Note Below	Materials
										Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Reference
										129 TON	394.75 /AC	19.8 /MSF		10 m (10 m (10 m)	1.62 /CY			Unit Unit
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The second second second	1000									0.77	0.77	0.77			0.77			
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	and design	T	10 may 400 V		П		T	$\prod$									Ref.
Total	Assume 25% reveg rate	Bosondina	Direct Vegetation	Subtotal					Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G16	Description
				を見るから、本で関係である。 これの地域では、1900年の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の					Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day			Excavation Bulk Bank 3 CY - 2011		See Note Below	Malerials
									Reveg001	Dugout 07391S	Reveg002		270 2700	31 23 16 42 0300			Reference
									129 TON	394.75 /AC	19.8 /MSF			1.62 /CY			Cost
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Total	Assume 25% reveg rate	Reseeding	Direct Acherator	Direct Consistion	Subtotal							Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G17	Description
												Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day			Excavation Bulk Bank 3 CY - 2011		See Note Below	Materials
												Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Reference Number
												129 TON	394.75 /AC	19.8 /MSF			1.62 /CY			Cost
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Total	Assume 25% reveg rate	Reseeding		Direct Vegetation	Subjoidi	Out to						Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G18	Cascificati
					5.7 S							29105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day			Excavation Bulk Bank 3 CY - 2011		See Note Below	MORGINIO
												Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Reference Number
												129 TON	394.75 /AC	19.8 /MSF			1.62 /CY			Cost
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Area reflects disturbed acreage as surveyed by Cody Ware of Ware Surveying.

			A. A										L						Ref.
Total	Assume 25% reven rate	Reseeding	Direct Vegetation		Subtotal						Hay Mulch	tydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G19	Description
											Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day			Excavation Bulk Bank 3 CY - 2011		See Note Below	Materials
											Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Reference
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Page 21

Sale Sale	3	E STATE OF											Ref.
Total September 1	Assume 25% reveg rate	1 1 2	Subjoial		Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	AMV Road	Description
					Hay 1" material only 029105000250	Dugout Seed Mix No 1 Dugout 07391S	Hydro Spreader (equip. & labor) B-81 80MSF/day			Excavation Bulk Bank 3 CY - 2011		See Note Below	Materials
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Ref. Degas Well G-22 and Access Road See Note Below Description Reseeding
Assume 25% reveg rate Subtotal Direct Vegetation Excavation Bulk Bank 3 CY - 2011 Materials 31 23 16 42 0300 Reference Number Cost 1.62 /CY Unit Length Width Height Diameter Area Volume Weight Density Time Number S<sub>it</sub> Swell Quantity Unit Cost 2713

Area reflects disturbed acreage as surveyed by Cody Ware of Ware Surveying.

Area reflects disturbed acreage as surveyed by Cody Ware of Ware Surveying.

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Total	Assume 25% reveg rate	Reseeding	Direct Vegetation		Subtotal						Hay Mulch	Hydroseed Material	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G-25	Description
											Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydroseed Equipment and Labor Hydro Spreader (equip. & labor) B-81 80MSF/day  Reveg002			Excavation Bulk Bank 3 CY - 2011		See Note Below	Malenais
											Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Reference Number
											129	394.75 /AC	19.8			1.62			Cost
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-						+	+		-	+	0.6 ton/AC	0.6 AC	26 MSF		+	968 CY	H	+	Conti
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Total	Assume 25% reveg rate	Reseeding	Direct Vegetation	Subtotal				Hydroseed Material	Hay Mulch	Hydroseed Equipment and Labor	Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G-26	Description
								Hay 1" material only 029105000250	Dugout Seed Mix No 1	Hydro Spreader (equip. & labor) B-81 80MSF/day Reveg002			Excavation Bulk Bank 3 CY - 2011		See Note Below	Marenais
			***	State of the Control				Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Reference
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2702	227		2475	907	$\perp$			ថ្ង	237	515		1568	1568			

Area reflects disturbed acreage as surveyed by Cody Ware of Ware Surveying.

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Total	Reseeding Assume 25% reveg rate	Direct Vegetation	Subtotal			Hydroseed Material	Hay Mulch		Seed Mix No 1	ibtotal	Pocking	Soil Preparation	Degas Well G-29	Cescipion
					Cagara Cook	Dimont Seed Mix No 1	Hay 1" material only 029105000250	Hydro Spreader (equip. & labor) B-81 80MSF/day  Reveg002			Excavation Bulk Bank 3 CY - 2011		See Note Below	Waterialo
	Sec.							bor) B-81 80MSF/day		A CONTRACTOR OF THE PARTY OF TH				
			c		300	Peyeono1	Dugout 07391S	Reveg002		VC 12,00	31 23 16 42 0300			Reference Number
						120	394.75 /AC	19.8			1.62			Cost
		Agr.				TON	AC.	19.8 /MSF			1.62 /CY			Ş
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2702	227	2475	907		1 5	156	237	515		1568	1568			Cost

Area reflects disturbed acreage as surveyed by Cody Ware of Ware Surveying.

As of January 2011 G-29 has not been constructed but if constructed would likely be the same size ad G-25 and G-26 pads.

			B. 180													Ref
Total	Assume 25% reveg rate	Reseeding	Direct Vegetation	Subtotal				Hydroseed Material	Hay Mulch		Seed Mix No 1	Subtotal	Pocking	Soil Preparation	Degas Well G-30	
									Hay 1" material only 029105000250	Hydro Spreader (equip. & labor) B-81 80MSF/day Reveg002			Excavation Bulk Bank 3 CY - 2011		See Note Below	THEORY
				The state of the s				Reveg001	Dugout 07391S	Reveg002			31 23 16 42 0300			Reference Number
								129 TON	394.75 /AC	19.8 /MSF			1.62 /CY			Cost
																Congress
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		+	The state of the s	High wilder A. A. Strong at												200
\$ 5 K							-	0.93	0.93	0.93			0.93			
		+														wording weight Density
	The special property of the second				-											ciony
	West of the other			54 10 24 25						,						aging a
								AC	AC	AC			AC			Factor
	And the second		# 10 mm 1500 10m					0.93 ton/AC	0.93 AC	41 MSF			1500 CY			Control
4204		+	3849	1419				AC		T.		2430				Cos

Area reflects disturbed acreage as surveyed by Cody Ware of Ware Surveying.

Printed 2/11/2011

19.8 /MSF 394.75 /AC 129 TON

31 MSF 0.71 AC 0.71 ton/AC

Soil Preparation Pocking Subtotal

Excavation Bulk Bank 3 CY - 2011

Degas Well G31

See Note Below

Reference Number

Cost

Unit

Length

Width

Height Diameter

Area

Volume Weight

Density

Time

Number

Unit

Swell

Quantity

ĕ

Cost

Description

Materials

Seed Mix No 1
Hydroseed Equipment and Labor
Hydroseed Material
Hay Mulch

Assume 25% reveg rate Direct Vegetation Subtotal

Area reflects disturbed acreage as surveyed by Cody Ware of Ware Surveying.

Dugout Canyon Mine C/007/039

Vegetation Costs Revised January 2011

# CHAPTER 6 GEOLOGY

#### 625 Additional Geologic Information

It is not anticipated that any additional geologic data will need to be collected for this site. During the drilling of degassification wells geologic data may be collected, refer to Chapter 6 of the Degassification amendment for details.

# 626 Sampling Waivers

A sampling waiver is not requested at this time for this site.

#### 627 Description of the Overburden Thickness and Lithology

Overburden thickness above the coal seam ranges from approximately 600 feet in the southern portions of the permit area to over 2400 in the northern and northeastern portions (Plate 6-4). Stratigraphically, the overburden consists of the Upper Blackhawk Formation, which contains the coal seams, the Castlegate Sandstone, the Price River Formation, the North Horn Formation, and the Flagstaff Formation as described in Section 624.100 of this M&RP.

#### **630 OPERATION PLAN**

#### 631 Casing and Sealing of Exploration Holes

The information addressing regulations for casing and sealing of exploration holes is found in Section 765 of this M&RP. This includes both the temporary and permanent casing and sealing of drilled holes and exploration holes and boreholes.

#### 632 Subsidence Monitoring

Subsidence and subsidence monitoring points are discussed in detail in Section 525 of this M&RP and a map showing the subsidence monitoring locations is provided in the annual report.

**CHAPTER 2** 

SOILS

Canyon Fuel Company, LLC Dugout Canyon Mine

Valley Authority, BLM - USFS published data, physical and chemical analyses results, field-site trials, or greenhouse tests.

# 233.400 Testing of Substitute Topsoil

Only the substitute topsoil used in lieu of, or in conjunction with, on-site overburden and soil will be tested as described in Section 233.300.

### 234 Topsoil Storage

Soils salvaged from the site will be stockpiled on the site. Refer to Plates RA 5-1 and 7-1 for the stockpile location. The estimated volumes of soil to be stockpiled are presented in RA Table 2-2.

# 234.100 Topsoil Stockpiling

Soil removed will be stockpiled for later use in reclamation operations when it is impractical to promptly redistribute the materials on regraded areas. Refer to Plates RA 5-1 and 7-1 for the location of the soil storage area. Because the soil salvage quantities are estimated, the actual contours and corresponding cross-sections are approximate. The final soil stockpiles will be reflected in the as-built drawings for the site. RA Plate 2-2 reflects as-built drawings of the stockpiles soils.

It is anticipated that the piles will be constructed in horizontal lifts of 1.5 to 2.0 feet. Tracked equipment will be used to reduce compaction. The stockpiles will be graded to a maximum slope of 2:1 and seeded to promote surface stabilization. The interim reclamation seed mix described in Chapter 3, Section 341.200 will be used for this purpose.

The stockpiles will be kept isolated from the main area of the refuse site to protect the material from contaminants and unnecessary compaction that would interfere with vegetation. A sign will be

installed on the stockpiles to identify one as a topsoil storage area and the second as the subsoil storage area. The stockpiles will be protected from wind and water erosion by being revegetated with a quick growing vegetative cover (interim seed mix) and by installing berms around the stockpiles to help trap sediment coming off the stockpiles. The boulders designated in area "K" (RA Plate 2-1) will be stockpiled separately from the soils salvaged from the refuse site. The boulders will either be placed along the perimeter of the substitute topsoil pile, access road, on top of the subsoil pile or will be transported to the rock stockpile at the Dugout/Soldier Canyon Mine topsoil stockpile adjacent to the Soldier Canyon Road.

### 234.200 Stockpiled Topsoil

**Stable Stockpile Site.** Stockpiled materials will be placed on a stable site as described in Section 234.100.

**Protection from Contaminants and Compaction.** Stockpiled soil will be protected from contaminants and unnecessary compaction. To protect the soil from contaminants and unnecessary compaction that could interfere with vegetation, the stockpiles will be isolated from the main refuse pile area (Section 234.100). A sign designating "topsoil" will be installed on the stockpile.

The stockpile will be constructed in such a manner as to allow equipment access around the base of the stockpiles for repair of the surfaces and diversion structures as needed.

Furthermore, berms will be constructed around the stockpiles to further separate the soils from the materials stored on the site. The berm will be constructed as specified in Chapter 7.

**Wind and Water Erosion Protection.** The stockpiles will be protected from wind and water erosion by prompt establishment and maintenance of a vegetative cover. Berms will be constructed around the stockpiles to help trap sediment runoff from the stockpiles. Refer to Section 242 .100 for additional protection information.

**Topsoil Redistribution.** A limited quantity of stockpiled soil may be distributed on the refuse pile to determine the quantity of soil cover necessary to meet revegetation reclamation requirements. The remainder of the stockpiled soil will not be moved until redistributed during reclamation operations unless approved by the Division.

### 234.300 Topsoil Stockpile Relocation

Stockpiled soil in jeopardy of being detrimentally affected in terms of its quantity and quality by refuse pile operations may be temporarily redistributed upon approval by the Division and modification of this M&RP.

**Host Site.** Soil relocation may occur provided that such action does not permanently adversely affect soil of the host site.

**Topsoil Suitability.** Stockpiled soil relocation may occur provided the material is retained in a condition more suitable for redistribution than if stockpiled.

#### 240 RECLAMATION PLAN

## 241 General Requirements

Reclamation of the site (soil redistribution, amendments, and stabilization) is discussed in Sections 242, 243, and 244, respectively.

#### 242 Soil Redistribution

#### 242.100 Soil Redistribution Practices

The stored soil will be redistributed after recontouring of the site has occurred during reclamation activities. The refuse pile will be covered with 1 foot of equally blended coal waste and subsoil, approximately 2.6 feet of subsoil and approximately 0.4 feet of topsoil, to obtain a total depth of cover on the pile of 4 feet. The volume of material needed to cover the refuse pile is 82,976 CY.

There are currently topsoil and subsoil stockpiles located in the northeast portion of the site. Aero-Graphics, Inc. surveys estimated the volume in each stockpile as:

Topsoil Stockpiles volume = 8,384 CY Subsoil Stockpile volume = 9,211CY

Total cover material currently available in the stockpiles is estimated to be 17,595 CY.

During reclamation the berms and embankments that create the perimeter ditches and sediment pond will be pulled back to blend the undisturbed areas into the reclaimed refuse pile. This process will generate approximately 2,947 CY of additional cover material. The total available cover material at the refuse site is 20,542 CY

To reduce the volume of imported cover material the bottom foot of cover material will be a blend of coal waste and subsoil. Equal portions of coal waste and subsoil will be used to create this blended cover material. Thus, the volume of available cover material may be increased by 10,372 CY to a total of 30,914 CY.

Volume of cover material to be imported = 82,976 - 30,914 = 52,062 CY

Summary of Volumes

Volume of material needed to obtain 4 feet of cover = 82,976 CY

Total cover material available at the site = 20,542 CY

Vol. of coal waste blended with sub-soil to produce the first foot of cover = 10,372 CY

Canyon Fuel Company, LLC Dugout Canyon Mine

Vol. of subsoil blended with coal waste to produce the first foot of cover = 10,372 CY Volume of subsoil and topsoil needed to cover the pile = 72,604 CY Volume of cover material to be imported from borrow site = 52,062 CY

Soils will be handled when they are in a loose or friable condition.

**Contemporaneous Reclamation:** In the future, the applicant may decide to demonstrate that two feet of cover material over the refuse pile is sufficient to meet reclamation standards for bond release. Additional information and clarification of the project will be provided at that time. An area on the refuse pile will receive reclamation treatments contemporaneously to justify the decrease of required cover soils from four feet to two feet for final reclamation.

**Soil Thickness:** The topsoil will be distributed to the disturbed areas illustrated on Figure RA 5-

Currently, it is planned that the refuse pile portion of the site be covered with approximately 48 inches of soil. Based on the proposed pile configuration this will require about 82,976 CY of soil. The remainder of the site area, not used for refuse storage will be covered with approximately 6 inches of substitute topsoil. Calculations of the soil cover volumes are presented in Attachment 2-2. Soils in the area designated as H and J (approximately 11.2 acres) are not currently planned for salvage, except in the area of the pond spillway (RA Plate 2-1).

**Compaction.** To prevent compaction of topsoil, soil-moving equipment will refrain from unnecessary operation over spread soil. Front-end-loaders and other wheel-mounted equipment may be used to transport and dump soil. However, to minimize compaction, only track-mounted equipment (e.g. bulldozers, trackhoes) will be used to spread the soil. The soil will be loosened prior to seeding as described in Section 341.200.

Canyon Fuel Company, LLC Dugout Canyon Mine

**Erosion.** Care will be exercised to ensure the stability of soil on graded slopes to guard against erosion during and after soil application. Erosion control measures will include but not be limited to extreme surface roughening (also known as pocking and gouging).

# 242.200 Regrading

Since the site has been disturbed by previous activities and will be used to permanently store coalmine waste, the area will not be returned to the original geometric configuration. Prior to soil redistribution, the disturbed area will be graded to meet the proposed final reclamation topography (RA Plate 5-3).

The surface of the refuse pile will be left in a roughened state and in addition will be ripped prior to the application of soil. After the 1<sup>st</sup> lift of subsoil is placed, the surface of the refuse pile will be ripped again to a depth of approximately 12 inches in an effort to promote root penetration and to mix the top layer of the refuse with the subsoil. Refer to Section 341.200 for further discussion of roughening methods.

The second type of surface consists of roads, perimeter ditches, etc. which may be compacted through their use. The surface will be ripped to a depth of approximately 1.5 to 2 feet with a ripper-equipped tractor or other appropriate equipment where possible to reduce surface compaction, to assure soil adherence, and promote root penetration. Following the ripping of the soils and the application of stockpiled soils, extreme roughening techniques will be applied. A backhoe or trackhoe will be used to create microbasins with a minimum depth of 18" and the width of the bucket. Soil removed to form the microbasins will be dropped approximately 2 to 3 feet above the microbasin onto the soil surface.

#### 242.300 Topsoil Redistribution on Impoundments and Roads

The sedimentation pond and embankment will be breached and reclaimed with the other surface disturbed areas. Similarly, reclamation of abandoned roads will also follow the same technique as for other disturbed areas.

#### 243 Soil Nutrients and Amendments

Soil nutrients and amendments may be applied to the redistributed soil as necessary, to establish the vegetative cover. The type and rate of application will be determined just prior to contemporaneous and final reclamation activities based on analyses of samples collected from the stockpiled soil materials. The soils will, at a minimum, be tested for pH, EC, total carbon, SAR, phosphorus, nitrate-nitrogen, and water holding capacity.

In the event that the topsoil/subsoil piles are moved adjacent to the Dugout Canyon Road in conjunction with the pile expansion, organic matter will be incorporated into topsoil/subsoil piles when the soils are relocated. Vegetation growing on the piles was incorporated into the topsoil/subsoil piles as they were relocated. The future type and rate of application for organic matter will be determined by the applicant and UDOGM reclamation specialists prior to moving the soils during reclamation activities.

# CHAPTER 1 LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

Methane Degassification Amendment

TABLE 1-2
Disturbed Acres by Well Site

Well Site	Permitted	Surveyed
	Disturbed Acres	Disturbed Acres*
G-1	0.6	Not Constructed
G-2	1.21	0.45
G-3	0.97	0.51
G-4	0.85	0.39
G-5	0.75	0.42
G-6	0.32	0.59
G-7	1.25	0.49
G-8	0.9	Not Constructed
G-9	2.2	0.31
G-10	1.7	0.29
G-11	1.6	0.32
G-12	2	0.32
G-13	2.75	0.44
G-14	2	0.40
G-15	2.5	0.77
G-16	2	0.64
G-17	1.25	Not surveyed
G-18	1.4	0.70
G-19	2.3	0.52
G-22 and Access Road	3.5	1.79
G-25	1.8	0.60
G-26	1.8	0.60
G-29	2	Not Constructed
G-30	2	0.93

		T
G-31	1.75	0.71

<sup>\*</sup> Professional Land Surveyor certified copy of acreage is located in Appendix 5-6 of M&RP.

# CHAPTER 2 SOILS

TABLE 2-1
Topsoil Volumes\*

Well No.	Cubic Yards of Material
G-1	415
G-2	3,104
G-3	1,182
G-4	1,100
G-5	1,909
G-6	792
G-7	1251
G-8	543
G-9	1,574
G-10	2,344
G-11	254
G-12	563
G-13	2,162
G-14	1,544
G-15	1,475
G-16	1,092
G-17	797
G-18	2,195
G-19	2,037
G-22 & Access Road	2,103
G-25	1,081
G-26	927
G-29	1,363
G-30	1,235
G-31	4,624

# ATTACHMENT 2-1 SOIL INVENTORY AND ASSESSMENT

add to the back of existing information



Soil Analysis Report Canyon Fuel Company

Dugout Canyon Mine P.O. Box 1029 Wellington, UT 84542

Project:

Date Received:

6/14/2010

**Dugout Canyon Mine** 

Report ID: S1006234001

Date Reported: 7/22/2010
Work Order: S1006234

Work Ord

				Electrical	Field	Wilt
	Depths	밀	Saturation	Conductivity	Capacity	Point
Sample ID	Inches	s.u.	%	dS/m	%	%
G-30-02	0-3	6.7	45.9	0.52	33.8	15.2
G-30-02	<u>ဒ</u> -	6.8	51.1	0.31	29.4	16.8
G-30-02	8-30	8.2	40.7	0.23	24.7	12.7
G-30-02	30-60	8.2	41.3	0.38	26.1	14.4
G-30-01	0-3	7.7	51.0	0.47	36.2	17.9
G-30-01	3-8 8	7.3	48.5	0.46	32.1	16.7
G-30-01	8-12	7.9	45.0	0.28	26.5	16.0
DUG-5-2, 6-29	0-2	7.6	52.6	0.56	29.7	20.1
DUG-5-2/6-29	2-9	7.7	53.1	0.54	31.5	19.7
DUG-5-2/6-29	9-16	8.0	39.9	0.45	25.5	14.0
DUG-5-2/6-29	16-30	8. <u>1</u>	41.0	0.43	25.0	16.5
DUG-5-2 /6-29	30-45	8.1	40.8	0.26	25.9	15.0
	Sample ID  G-30-02 G-30-02 G-30-01 G-30-01 G-30-01 DUG-5-2 / G-29 DUG-5-2 / G-29 DUG-5-2 / G-29 DUG-5-2 / G-29 DUG-5-2 / G-29	C-29   C-29   C-29   C-29	Depths Inches s Inche	Depths         pH           Inches         s.u.           0-3         6.7           3-8         6.8           8-30         8.2           30-60         8.2           0-3         7.7           3-8         7.3           3-8         7.3           8-12         7.9           6-29         2-9           7.6         7.6           6-29         9-16           8.0         8.1           6-25         30-45           8.1         8.1	Depths         pH         Saturation           Inches         s.u.         %           0-3         6.7         45.9           3-8         6.8         51.1           8-30         8.2         40.7           30-60         8.2         41.3           0-3         7.7         51.0           3-8         7.3         48.5           6-29         8-12         7.9         45.0           6-29         7.7         53.1           6-29         9-16         8.0         39.9           6-29         16-30         8.1         41.0           6-29         30-45         8.1         40.8	Depths         pH         Saturation         Conductivity           Inches         s.u.         %         dS/m           0-3         6.7         45.9         0.52           3-8         6.8         51.1         0.31           8-30         8.2         40.7         0.23           30-60         8.2         41.3         0.38           0-3         7.7         51.0         0.47           3-8         7.3         48.5         0.46           6-29         7.9         45.0         0.28           6-29         7.7         53.1         0.56           6-29         9-16         8.0         39.9         0.45           6-29         16-30         8.1         41.0         0.43           6-29         30-45         8.1         40.8         0.26

These results apply only to the samples tested.

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Reviewed by Karen Asecon



Soil Analysis Report Canyon Fuel Company

Report ID: S1006234001

Dugout Canyon Mine P.O. Box 1029 Wellington, UT 84542

Project:

Date Received:

6/14/2010

**Dugout Canyon Mine** 

Date Reported: 7/22/2010
Work Order: \$1006234

\$1006234-004 S1006234-003 \$1006234-002 \$1006234-001 Lab ID S1006234-007 S1006234-006 \$1006234-005 \$1006234-009 \$1006234-008 \$1006234-011 \$1006234-010 S1006234-012 Sample ID G-30-02 G-30-02 G-30-02 G-30-02 DUG-5-2 / G-29 DUG-5-2 / G -29 G-30-01 G-30-01 G-30-01 DUG-5-2 / 6-29 DUG-5-2 / 6-29 DUG-5-2 / 6-29 Depths inches 30-60 8-30 8-12 0-3 30-45 16-30 9-16 0-2 ω & о<u>-</u>3 2-9 <u>ပ</u>ု Calcium meq/L 4.27 3.24 1.56 1.50 1.95 2.49 4.28 1.80 3.25 1.89 Æ 1.47 2.49 Magnesium meq/L 0.74 0.70 0.56 0.30 0.53 1.19 0.54 0.58 0.50 0.64 0.35 0.41 В Potassium meq/L 0.14 0.01 0.02 0.03 0.31 0.03 0.10 0.18 0.28 0.06 0.14 띪 Sodium meq/L 0.13 0.76 0.12 0.64 0.27 0.14 0.79 0.66 0.24 0.26 0.11 0.14 SAR 0.08 0.10 0.74 0.11 0.15 0.16 0.25 0.54 Sand 30.0 23.0 34.0 36.0 25.0 33.0 31.0 23.0 31.0 11.0 35.0 26.0 % 30.0 33.0 31.0 35.0 32.0 48.0 51.0 40.0 35.0 38.0 42.0 S 44.0 % 35.0 45.0 Clay 32.0 33.0 35.0 36.0 27.0 38.0 29.0 32.0 31.0 % Silty Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Texture Clay

These results apply only to the samples tested

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Reviewed by: Karen Assecon

aren Secor, Soil Lab Supervisor

Page 2 of 5



Soil Analysis Report Canyon Fuel Company

Report ID: \$1006234001

Project: Dugout Canyon Mine
Date Received: 6/14/2010

Dugout Canyon Mine P.O. Box 1029 Wellington, UT 84542

Date Reported: 7/22/2010
Work Order: S1006234

				Nitrogen	Available	Available				Total	
		Depths	CO3	Nitrate	Phosphorus	Potassium	Selenium	Boron	TKN	Carbon	700
Lab ID	Sample ID	Inches	%	ppm	ppm	ppm	ppm	mdd	%	%	%
S1006234-001	G-30-02	0-3	1.2	10.5	16.2	336	<0.07	0 57	2	J.	
\$1006234-002	G-30-02	۵ <u>-</u> ۲	ע	>	) )	) ) ,	0		0.2	۲	 
01000001000	0-00-02	<u>ن</u> 0	 .G	0.4	0.86	96.2	<0.02	0.33	0.13	0.6	0.4
\$1006234-003	G-30-02	8-30	24.4	0.5	0.64	53.2	<0.02	0.22	0.05	3.0	0.2
S1006234-004	G-30-02	30-60	20.2	0.6	0.67	57.0	<0.02	0 19	0 06	<b>)</b>	) i
S1006234-005	G-30-01	0-3	ი . ს	29	17 1	250	000	0 1	0 0	, i	, i
\$1006334-006	0 20 01	<b>)</b>	•			t	6.0		0.27	3.1	2.3
0.000704-000	G-50-01	ζ- α	2.1	1.3	3.62	181	0.02	0.21	0.14	1.7	<u>1</u> .5
S1006234-007	G-30-01	8-12	13.8	1.1	0.78	67.0	<0.02	0.15	0 07	<u>,</u>	ე ა
S1006234-008	DUG-5-2/6-29	0-2	22.1	4	۶ ۵ م	າ ວ		) )	) !	i -	ć N
21006334 000	7 7 7 9	)	. !		0	700	×0.02	0.34	0.29	5.9	3. <b>4</b>
31000234-009	12-5-5/6-21	2-9	18.4	4.4	3,86	280	<0.02	0.32	0.27	5.O	2,9
S1006234-010	DUG-5-2/ 6-24	9-16	26.4	3.9	1.63	212	<0.02	0.15	0 12	ىر 20	ı S
S1006234-011	DUG-5-2 / G-29	16-30	26 A	<u>م</u>	1 02	2	3	) )		ć	i
S1006334 013	DIO 63 16-29	)	)			761	0.02	0.13	0.11	ა 8	0.9
0.000234-0.12	000-5-2/0 1/	30-45	30.3	0.9	0.64	95.2	<0.02	0.12	0.08	4 2	بر 0

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Reviewed by: Kaven Asecon

aren Secor, Soil Lab Supervisor



Soil Analysis Report Canyon Fuel Company

Dugout Canyon Mine P.O. Box 1029

Wellington, UT 84542

Project:

Date Received:

6/14/2010

**Dugout Canyon Mine** 

Report ID: S1006234001

Date Reported: 7/22/2010

Work Order: S1006234

			Available	Exchangeable
		Depths	Sodium	Sodium
Lab ID	Sample ID	Inches	meq/100g	meq/100g
\$1006234-001	G-30-02	0-3	0.02	<0.01
S1006234-002	G-30-02	ယ 8	0.03	0.03
S1006234-003	G-30-02	8-30	0.02	0.02
S1006234-004	G-30-02	30-60	0.03	<0.01
S1006234-005	G-30-01	0-3	0.01	<0.01
S1006234-006	G-30-01	3-8	0.02	0.01
S1006234-007	G-30-01	8-12	0.03	0.02
S1006234-008	DUG-5-2 /6-29	0-2	0.02	<0.01
\$1006234-009	DUG-5-2 /6-29	2-9	0.02	<0.01
S1006234-010	DUG-5-2 /6-29	9-16	0.02	<0.01
S1006234-011	DUG-5-2 / 6-29	16-30	0.01	<0.01
\$1006234-012	DUG-5-2 / 6-2)	30-45	0.02	0.01

These results apply only to the samples tested.

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Reviewed by: Karen Secor, Soil Lab Supervisor



Canyon Fuel Company Soil Analysis Report

Wellington, UT 84542 Dugout Canyon Mine P.O. Box 1029

Date Received:

6/14/2010

**Dugout Canyon Mine** 

Report ID: S1006234001

Date Reported: 7/22/2010

Work Order: S1006234

			Total	T.S.	Neutral.	T.S.	Sulfate	Pyritic	Organic	PyriticS	PyriticS
		Depths	Sulfur	AB	Potential	ABP	Sulfur	Sulfur	Sulfur	ΑB	ABP.
Lab iD	Sample ID	Inches	%	t/1000t	t/1000t	t/1000t	%	%	%	t/1000t	t/1000t
S1006234-001	G-30-02	0-3	0.03	1.03	10.6	9 61	0.02	\n 0.1		2	
S1006234-002	G-30-02	ည	0 03	0 64	<u>,</u>	)		6.0	0.0	<0.01	10.6
S1006334 003		) (	0.02	0.64	14.2	13.6	<0.01	<0.01	0.01	<0.01	14.2
0.000234:003	G-3U-UZ	8-30	0.01	0.42	236	235	<0.01	<0.01	0.01	<0.01	236
S 1006234-004	G-30-02	30-60	0.02	0.47	200	200	<0.01	<0.01	0 01	<0.01	300
S1006234-005	G-30-01	0-3	0.04	1.23	69.6	68.3	0 01	0 01	0	)	0 0
S1006234-006	G-30-01	კ-8	0.04	1.18	20.4	10 2	0 :	) () ) -	0 0	0.43	69.2
\$1006234-007	G-30-01	8-12	0.02	0 60	1/3	2 6	5 6	, <u>(</u>	0.01	<0.01	20.4
S1006234-008	DIR. 5 / C - 29	) )	) )		Č	74.	×0.01	<0.01	<0.01	<0.01	143
		0-2	0.04	1.24	214	213	0.01	0.02	0.01	0.48	213
S1006234-009	DUG-5-2 / 6-727	2-9	0.03	1.08	178	177	<0.01	0.01	0.02	0 43	178
S1006234-010	DUG-5-2 /6-29	9-16	0.03	0.82	222	221	<0.01	^0 01 ,	3	5	3 :
S1006234-011	DUG-5-2 / G-29	16 30	2	>	)		(		0.02	\0.O.	222
84008334 045	0005-16-29	0-00	0.03	0.84	239	238	0.01	<0.01	<0.01	<0.01	239
0100000	006-3-2 7	30-45	0.02	0.57	300	299	<0.01	<0.01	0.01	<0.01	300

These results apply only to the samples tested.

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Reviewed by: Karen Assecon

aren Secor, Soil Lab Supervisor



Soil Analysis Report Canyon Fuel Company

Dugout Canyon Mine P.O. Box 1029 Wellington, UT 84542

Project:

Date Received:

5/29/2007

**Dugout Canyon Mine** 

Report ID: S0705521001

Date: 7/9/2007

Work Order: S0705521

					Electrical	Field	Wilt		
		Depths	РH	Saturation	Conductivity	Capacity	Point		
Lab ID	Sample ID	Inches	S.U.	%	dS/m	%	%		
S0705521-001	G-31 SP1	0-6	7.7	41.7	0.29	16	15		
S0705521-002	G-31 SP1	6-24	7.8	39.6	0.26	16	15		
S0705521-003	G-31 SP1	24-33	7.9	40.2	0.24	18	15		
S0705521-004	97 SP1	0-6	7.0	46.6	0.35	18	15		
S0705521-005	97 SP1	6-27	7.8	43.1	0.32	18	16		
S0705521-006	62 SP1	0-7	7.6	48.7	0.33	18	18		
S0705521-007	62 SP1	7-22	7.9	34.4	0.24	15	13		
S0705521-008	62 SP1	22-36	7.8	40.3	0.23	16	17		
S0705521-009	G-18 SP1	0-7	7.6	46.3	0.37	18	16		
S0705521-010	G-18 SP1	7-21	7.8	46.9	0.34	16	17		
S0705521-011	13 SP1	0-10	7.8	42.5	0.34	14	15		
S0705521-012	13 SP1	10-26	7.9	40.7	0.30	15	15		

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Reviewed by: Kaven A Secon

Inter-Mountain Laboratories, Inc.

1673 Terra Avenue, Sheridan, Wyoming 82801

(307) 672-8945

Canyon Fuel Company Soil Analysis Report

Dugout Canyon Mine P.O. Box 1029 Wellington, UT 84542

Project:

Date Received:

5/29/2007

**Dugout Canyon Mine** 

Report ID: S0705521001

Work Order: S0705521 Date: 7/9/2007

							Available	Exchangeable	
	Depths	Calcium	Magnesium	Sodium	Potassium	SAR	Sodium	Sodium	
Sample ID	inches	meq/L	meq/L	meq/L	meq/L		meq/100g	meq/100g	
G-31 SP1	0-6	3.33	0.30	0.18	0.07	0.13	0.38	0.37	
G-31 SP1	6-24	4.06	0.33	0.27	0.06	0.18	0.28	0.27	
G-31 SP1	24-33	2.42	0.37	0.19	0.06	0.16	0.30	0.30	
97 SP1	0-6	2.44	0.69	0.25	0.09	0.20	0.05	0.04	
97 SP1	6-27	2.30	0.53	0.23	0.05	0.19	0.32	0.31	
62 SP1	0-7	2.27	0.58	0.20	0.20	0.17	0.31	0.31	
62 SP1	7-22	1.48	0.55	0.21	0.17	0.21	0.17	0.16	
62 SP1	22-36	1.53	0.59	0.14	0.15	0.14	0.34	0.33	
G-1 <b>9</b> SP1	0-7	2.41	0.55	0.13	0.17	0.11	0.18	0.17	
G-18 SP1	7-21	2.70	0.58	0.22	0.08	0.17	0.36	0.35	
13 SP1	0-10	3.38	0.36	0.08	0.08	0.06	0.27	0.27	
13 SP1	10-26	2.97	0.37	0.12	0.04	0.10	0.23	0.23	
	Sample ID G-31 SP1 G-31 SP1 G-31 SP1 97 SP1 97 SP1 62 SP1 62 SP1 62 SP1 62 SP1 13 SP1 13 SP1	, = D	Depths Inches 0-6 6-24 24-33 0-6 6-27 7-22 22-36 0-7 7-21 0-10 10-26	Depths Calcium Inches meq/L  0-6 3.33 6-24 4.06 24-33 2.42 0-6 2.44 6-27 2.30 0-7 2.27 7-22 1.48 22-36 1.53 0-7 2.41 7-21 2.70 0-10 3.38 10-26 2.97	Depths         Calcium         Magnesium           Inches         meq/L         meq/L           0-6         3.33         0.30           6-24         4.06         0.33           24-33         2.42         0.37           0-6         2.44         0.69           6-27         2.27         0.58           7-22         1.48         0.55           22-36         1.53         0.59           0-7         2.41         0.55           7-21         2.70         0.58           0-10         3.38         0.36           10-26         2.97         0.37	Depths         Calcium         Magnesium         Sodium           Inches         meq/L         meq/L         meq/L           0-6         3.33         0.30         0.18           6-24         4.06         0.33         0.27           24-33         2.42         0.37         0.19           0-6         2.44         0.69         0.25           6-27         2.27         0.58         0.20           7-22         1.48         0.55         0.21           22-36         1.53         0.59         0.14           0-7         2.41         0.55         0.13           7-21         2.70         0.58         0.22           0-10         3.38         0.36         0.08           10-26         2.97         0.37         0.12	Depths         Calcium         Magnesium         Sodium         Potassium         Sodium           Inches         meq/L	Depths         Calcium         Magnesium         Sodium         Potassium         SAR           Inchess         meq/L         0.13         0.18         0.18         0.18         0.18         0.18         0.16         0.18         0.19         0.20         0.19         0.20         0.19         0.20         0.19         0.19         0.17         0.21         0.21         0.21         0.21         0.21         0.21         0.21         0.21         0.21	Depths Inches         Calcium (meq/L)         Magnesium (meq/L)         Sodium (meq/L)         Potassium (meq/L)         SAR (meq/100g)         Sodium (meq/100g)           0-6         3.33         0.30         0.18         0.07         0.13         0.38           6-24         4.06         0.33         0.27         0.06         0.18         0.28           24-33         2.42         0.03         0.25         0.09         0.16         0.30           0-6         2.44         0.69         0.25         0.09         0.16         0.30           0-6         2.24         0.059         0.25         0.09         0.20         0.05           6-27         2.30         0.53         0.23         0.05         0.19         0.00           0-7         2.27         0.58         0.20         0.20         0.19         0.03           7-22         1.48         0.05         0.21         0.17         0.21         0.17           22-36         1.53         0.59         0.14         0.15         0.14         0.34           0-7         2.41         0.55         0.13         0.17         0.14         0.34           0-10         2.33 <t< td=""></t<>

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Reviewed by: Karen Asecon aren Secor, Soil Lab Supervisor



Soil Analysis Report Canyon Fuel Company

Dugout Canyon Mine P.O. Box 1029 Wellington, UT 84542

Project:

Date Received:

5/29/2007

**Dugout Canyon Mine** 

< 1029 UT 84542

Report ID: S0705521001

Date: 7/9/2007 Work Order: S0705521

						Coarse
	Depths	Sand	Silt	Clay	Texture	Fragment
Sample ID	Inches	%	%	%		%
G-31 SP1	0-6	29.0	36.0	35.0	Clay Loam	0.88
G-31 SP1	6-24	29.0	37.0	34.0	Clay Loam	1.32
G-31 SP1	24-33	31.0	40.0	29.0	Clay Loam	0.78
97 SP1	0-6	43.0	27.0	30.0	Clay Loam	0.02
97 SP1	6-27	38.0	34.0	28.0	Clay Loam	0.91
62 SP1	0-7	29.0	43.0	28.0	Clay Loam	6.54
62 SP1	7-22	46.0	34.0	20.0	Loam	0.02
62 SP1	22-36	24.0	48.0	28.0	Clay Loam	0.11
G-18 SP1	0-7	35.0	41.0	24.0	Loam	2.45
G-18 SP1	7-21	24.0	56.0	20.0	Silt Loam	0.65
13 SP1	0-10	30.0	40.0	30.0	Clay Loam	4.56
13 SP1	10-26	24.0	48.0	28.0	Clay Loam	0.58
	Sample ID G-31 SP1 G-31 SP1 G-31 SP1 97 SP1 62 SP1 62 SP1 62 SP1 62 SP1 13 SP1 13 SP1	. = D	Depths S Inches 0-6 6-24 24-33 0-6 6-27 7-22 22-36 0-7 7-21 0-10 10-26	Depths         Sand           Inches         %           0-6         29.0           6-24         29.0           24-33         31.0           0-6         43.0           6-27         38.0           0-7         29.0           7-22         46.0           22-36         24.0           0-7         35.0           7-21         24.0           0-10         30.0           10-26         24.0	Depths         Sand         Silt         0           Inches         %         %         %           0-6         29.0         36.0         36.0         36.0         37.0	Depths         Sand         Silt         Clay           Inches         %         %         %           0-6         29.0         36.0         35.0         6.2           6-24         29.0         37.0         34.0         6.2           24-33         31.0         40.0         29.0         6.0           6-27         38.0         27.0         30.0         6.0           7-22         46.0         34.0         28.0         28.0           22-36         24.0         48.0         28.0         28.0           7-21         35.0         41.0         20.0         20.0           7-21         24.0         56.0         20.0         20.0           10-26         24.0         48.0         28.0         20.0

Reviewed by: Karen Secor, Soil Lab Supervisor

Page 3 of 5

These results apply only to the samples tested.

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral, Pot.= Neutralization Potential Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage



Soil Analysis Report Canyon Fuel Company

Dugout Canyon Mine P.O. Box 1029 Wellington, UT 84542

Date Received:

5/29/2007

Dugout Canyon Mine

Report ID: S0705521001

Date: 7/9/2007

Work Order: S0705521

					Nitrogen		
· i		Depths	Boron	TKN	Nitrate	Phosphorus	Selenium
Lab ID	Sample ID	Inches	ppm	%	ppm	ppm	mdd
S0705521-001	G-31 SP1	0-6	0.29	0.12	3.06	1.46	<0.02
S0705521-002	G-31 SP1	6-24	0.25	0.09	1.03	1 36	<n n=""></n>
S0705521-003	G-31 SP1	24-33	0.24	0.08	0 47	0	70.02
S0705521-004	97 SP1	0-6	0.34	0.15	4 F	0 70	7000
S0705521-005	97 SP1	6-27	0.46	0.11	1.60	0 18	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
S0705521-006	62 SP1	0-7	0.28	0.10	4.98	127	<0.02
S0705521-007	62 SP1	7-22	0.15	0.04	0.59	1.83	<0.02 0.02
S0705521-008	62 SP1	22-36	0.20	0.05	0.86	0.76	60 00 1
S0705521-009	G-18 SP1	0-7	0.43	0.17	6.51	1.23	A) (1)
S0705521-010	G-18 SP1	7-21	0.27	0.10	1.06	0.26	<0.02
S0705521-011	13 SP1	0-10	0.31	0.12	22,7	יי א ה	0 0
S0705521-012	13 SP1	10.06	) )	) )	:	ć	6.0
0070001-012	- C	70-26	0.28	0.09	1.46	<0.01	<0.02

These results apply only to the samples tested.

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen Asecon

Soil Analysis Report Canyon Fuel Company

Dugout Canyon Mine P.O. Box 1029 Wellington, UT 84542

Date Received:

5/29/2007

**Dugout Canyon Mine** 

Report ID: 80705521001

Date: 7/9/2007 Work Order: S070552

Work Order: S0705521

S0705521-003	S0705521-002	S0705521-001	Lab ID		
G-31 SP1	G-31 SP1	G-31 SP1	Sample ID		
24-33	6-24	0-6	Inches	Depths	
0.04	0.01	0.01	%	Sulfur	Total
1.23	0.35	0.45	t/1000t	AB	T.S.
309	257	213	t/1000t	Pot.	Neut.
308	256	212	t/1000t	ABP	T.S.
4.3	3.6	3.3	%	Carbon	Total
0.6	0.5	0.7	%	TOC	

S0705521-004

\$0705521-005 \$0705521-006

6-27

<del>0</del>-6

0-7

<0.01 0.39 0.77

91.4

90.6

142

141

14.4

14.4

S0705521-007

97 SP1 97 SP1 62 SP1 62 SP1

62 SP1

7-22 22-36

<0.01

126

126

1.1 2.3 2.1 1.5

0.33

136

136

<0.1 0.2 1.0 0.6

\$0705521-008 \$0705521-009 \$0705521-010

G-18 SP1 G-18 SP1

S0705521-011 S0705521-012

13 SP1

13 SP1

0-7 7-21 0-10

<0.01
0.01
0.02
0.01
<0.01
<0.01
<0.01

<0.01

0.41

70.7

70.3

0.84

188 213

1.7 2.7 3.2

0.7

0.9

1.11

258

188 212 257

These results apply only to the samples tested

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage





Soil Analysis Report

Canyon Fuel Company

Dugout Canyon Mine P.O. Box 1029

Wellington, UT 84542

Report ID: S0909250001

Date Reported: 10/8/2009

Conductivity Capacity Field % Point ¥ E % Calcium meq/L B Magnesium meq/L B Potassium meq/L 면 Work Order: S0909250 Sodium meq/L ᇛ SAR

S0909250-001

Lab ID

Sample ID

s.u. ğ

፠

dS/m

0.48 0.45

Saturation

Electrical

Project:

Date Received:

9/14/2009

**Dugout Canyon Mine** 

S0909250-002

G-26 G-25

7.4 7.7

43.9 46.3

28 45

7 4

3.66 2.66

0.73 0.87

0.10 0.07

0.11 0.57

0.76 0.16

These results apply only to the samples tested.

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A. Secon ren Secor, Soil Lab Supervisor



Date Received:

9/14/2009

**Dugout Canyon Mine** 

Project:

Soil Analysis Report Canyon Fuel Company

Dugout Canyon Mine P.O. Box 1029 Wellington, UT 84542

Report ID: S0909250001

Date Reported: 10/8/2009

Work Order: S0909250

	S0909250-001 S0909250-002		Lab ID	
0,20	G-25		Sample ID	
38.0	26.0	ò	Sano %	2
41.0	45.0	ò	% UII	) <del>-</del>
21.0	29.0	76	Clay	)
Loam	Clay Loam		Texture	
11.2	21.4	%	CO3	
2.1	5.2	ppm	Nitrate	Nitrogen
<0.02	<0.02	ppm	Selenium	
0.35	0.49	ppm	Boron	
11.6	6.47	ppm	Phosphorus	
<0.01	<0.01	%	TKN	

These results apply only to the samples tested.

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Reviewed by: Karen Asecon

ren Secor, Soil Lab Supervisor



Soil Analysis Report

Canyon Fuel Company

Dugout Canyon Mine

Dugout Canyon Mine
P.O. Box 1029

Project:

Date Received:

9/14/2009

**Dugout Canyon Mine** 

Wellington, UT 84542

Report ID: S0909250001

Date Reported: 10/8/2009

								Work Order: S0909250
		Available	Available	Evokonoble	1			
				rycligilyeaple	lotai		Neutral.	
		Potassium	Sodium	Sodium	Carbon	Toc	Dotential	
	62m2 01			4 0 01 01 11	Carbon		Potential	
	Cample 10	ppm	meq/100g	meq/100g meq/100g	%	%	t/1000t	
50000050 001	)							
1.00-0678080S	G-25	90.7	0.18	0.14	3. <u>1</u>	0.5	214	
\$0909250-002	G-26	96.0	0.02	0.01	у Л	<u>.</u>	2 .	
				1	!	1.2	112	

These results apply only to the samples tested.

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO≃ Acid Ammonium Oxalate

Reviewed by: Karen Asecon

Page 3 of 3

# ATTACHMENT 2-2 TOPSOIL CALCULATIONS

add to the back of existing information

Volume Report
Comparing Grid: C:/Documents and Settings/svasten/Desktop/25a Base.grd and Grid: C:/Documents and Settings/svasten/Desktop/25a Final.grd
Grid corner locations: 89230.17.89762.89 to 89623.00.90123.58
Grid resolution X: 100, Y: 100 Grid cell size X: 3.93, Y: 3.61
Area in Cut : 0.0 S.F., 0.00 Acres
Area in Fill: 1,793.5 S.F., 0.04 Acres
Total inclusion area: 1,793.5 S.F., 0.04 Acres
Cut to Fill ratio: 0.00
Average Fill Depth: 2.92
Max Fill Depth: 6.64
Cut (C.Y.) / Area (acres): 4708.62
Cut volume: 0.0 C.F., 0.00 C.Y.
Fill volume: 5,234.3 C.F., 193.86 C.Y. 10/15/2009 14:57 Volume Report

Volume Report
Comparing Grid: C:/Documents and Settings/svasten/Desktop/25b
Base.grd
and Grid: C:/Documents and Settings/svasten/Desktop/25b
Final.grd
Grid corner locations: 8923017.89762.89 to 89623.00,90123.58
Grid resolution X: 100, Y: 100 Grid cell size X: 3.93, Y: 3.61
Area in Cut: 0.6 S.F., 0.00 Acres
Area in Fill: 2,952.9 S.F., 0.07 Acres
Total inclusion area: 2,953.4 S.F., 0.07 Acres
Cut to Fill ratio: 0.00
Average Cut Depth: 0.02 Average Fill Depth: 2.05
Max Cut Depth: 0.05 Max Fill Depth: 6.16
Cut (C.Y.) / Area (acres): 0.01
Fill (C.Y.) / Area (acres): 3305.22
Cut volume: 0.0 C.F., 0.00 C.Y.
Fill volume: 6,050.7 C.F., 224.10 C.Y. 10/15/2009 14:58 Volume Report

Volume Report

Comparing Grid: C:/Bocuments and Settings/svasten/Besktop/25c Base.grd and Grid: C:/Bocuments and Settings/svasten/Besktop/25c Final.grd Grid corner locations: 89230.17,89762.89 to 89623.00,90123.58 Grid resolution X: 100, Y: 100 Grid cell size X: 3.93, Y: 3.61

Area in Cut : 1.6 S.F., 0.00 Acres
Area in Fill: 4,988.1 S.F., 0.11 Acres
Total inclusion area: 4,989.7 S.F., 0.11 Acres
Cut to Fill ratio: 0.00

Average Cut Depth: 0.05 Average Fill Depth: 3.59
Max Cut Depth: 0.10 Max Fill Depth: 9.01
Cut (C.Y.) / Area (acres): 5788.04
Cut volume: 0.1 C.F., 0.00 C.Y.
Fill volume: 17,901.3 C.F., 663.01 C.Y.

DEGAS WELL G-2 10/15/2009 14:30 DEGAS WELL G-25 - 1081 CY

Volume Report
Comparing Grid: C:/Documents and Settings/svasten/Desktop/26 Base.grd and Grid: C:/Documents and Settings/svasten/Desktop/26 Final.grd Grid corner locations: 86870.81,88979.51 to 87143.53.89199.08
Grid corner locations: X: 100, Y: 100 Grid cell size X: 2.73, Y: 2.20
Area in Cut: 85.7 S.F., 0.00 Acres
Area in Fill: 6,153.5 S.F., 0.14 Acres
Total inclusion area: 6,239.2 S.F., 0.14 Acres
Cut to Fill ratio: 0.00
Average Cut Depth: 0.01 Average Fill Depth: 4.07
Max Cut Depth: 0.08 Max Fill Depth: 11.65
Cut (C.Y.) / Area (acres): 0.24
Fill (C.Y.) / Area (acres): 6468.77
Cut volume: 0.9 C.F., 0.03 C.Y.
Fill volume: 25,016.6 C.F., 926.54 C.Y.

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**DEGAS WELL G-26** - 927 CY

